4-253-873-**12**(1)

Mini Hi-Fi Component System

Operating Instructions

JAX-D55
JAX-D33

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WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To prevent fire, do not cover the ventilation of the apparatus with news papers, table-cloths, curtains, etc. And don't place lighted candles on the apparatus.

To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

This appliance is classified as a CLASS 1 LASER product. This marking is located on the rear exterior.

Don't throw away the battery with general house waste, dispose of it correctly as chemical waste.

ENERGY STAR®

ENERGY STAR® is a U.S. registered mark. As an ENERGY STAR® partner, Sony Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

This system incorporates Dolby[1)] Digital, Dolby Pro Logic (II) adaptive matrix surround decoder, and DTS[2)] Digital Surround System.

[1)] Manufactured under license from Dolby Laboratories.
"Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.

[2)] Manufactured under license from Digital Theater Systems, Inc. "DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

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How to use this manual

- This manual mainly explains operations using the remote, but the same operations can also be performed using the buttons on the unit having the same or similar names.
- The OSD (on-screen display) may vary depending on the country model.
- The English OSD screen (on-screen display) is used for illustration purposes only.
- The following symbols are used in this manual.

Symbol	Meaning
DVD	Functions that can be used with DVDs
VIDEO CD	Functions that can be used with VIDEO CDs
CD	Functions that can be used with audio CDs
MP3	Functions that can be used with MP3 audio tracks
JPEG	Functions available for JPEG files

Playable discs

You can play back the following discs on this system. Other discs cannot be played back.

List of playable discs

Format of discs	Disc logo
DVD VIDEOs	DVD VIDEO
VIDEO CDs	COMPACT disc DIGITAL VIDEO
Audio CDs	COMPACT disc DIGITAL AUDIO TEXT
CD-R/CD-RW (audio data/ MP3 files/ JPEG files)	COMPACT disc DIGITAL AUDIO Recordable / ReWritable; COMPACT disc Recordable / ReWritable

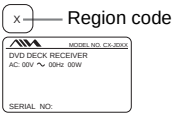
The “DVD VIDEO” logo is a trademark.

Region code of DVDs you can play on this system

Your system has a region code printed on the back of the unit and will only play DVDs labeled with identical region code.

DVDs labeled ALL will also be played on this system.

If you try to play any other DVD, the message “Playback prohibited by area limitations.” will appear on the TV screen. Depending on the DVD, no region code indication may be labeled even though playing the DVD is prohibited by area restrictions.



Discs that this system cannot play

- CD-ROMs (except for extension “.MP3”, “.JPG” or “.JPEG”)
- CD-Rs/CD-RWs other than those recorded in the following formats:
  - music CD format
  - video CD format
  - MP3 (MPEG1 Audio Layer-3)/JPEG format that conforms to ISO9660* Level 1/ Level 2 or Joliet
- Data part of CD-Extras
- Super Audio CDs
- DVD-RWs in VR (Video Recording) mode
- DVD-ROMs
- DVD-RAMs
- DVD Audio discs
- A DVD with a different region code.

continued

- Progressive JPEG format file
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this unit. Attempting to do so may damage the unit. Do not use such discs.
- A disc with paper or stickers on it.
- A disc that has the adhesive, cellophane tape, or a sticker still left on it.

* A logical format of files and folders on a CD-ROMs, defined by ISO (International Organization for standardization).

Notes about CD-R/CD-RW/ DVD-R/DVD-RW (Video mode)/ DVD+R/DVD+RW

- In some cases, CD-Rs, CD-RWs, DVD-Rs, DVD-RWs (Video mode) (DVD-RWs created in video mode have the same format as a DVD VIDEO), DVD+R or DVD+RW cannot be played on this system depending upon the recording quality or physical condition of the disc, or the characteristics of the recording device. Furthermore, the disc will not play if it has not been correctly finalized. For more information, see the operating instructions for the recording device.
- A disc recorded in packet write format cannot be played.

Note on playback operations of DVDs and VIDEO CDs

Some playback operations of DVDs and VIDEO CDs may be intentionally set by software producers. Since this system plays DVDs and VIDEO CDs according to the disc contents the software producers designed, some playback features may not be available. Also, refer to the instructions supplied with the DVDs or VIDEO CDs.

Music discs encoded with copyright protection technologies

This product is designed to playback discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

Cautions when playing a disc that is recorded in Multi Session

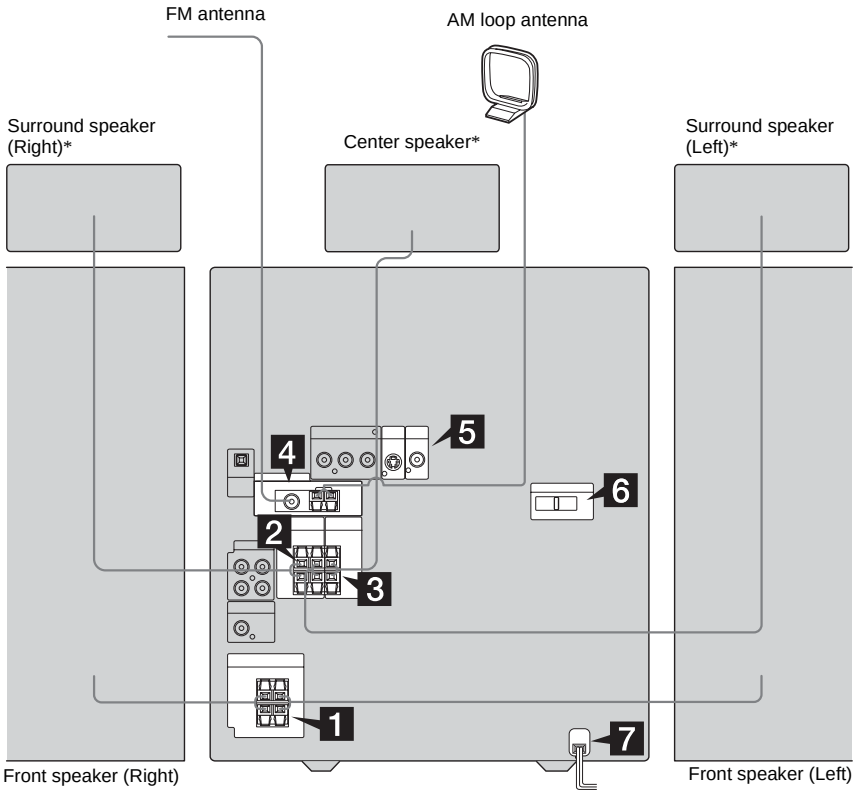
- This system can play Multi Session CDs when an MP3 audio track is contained in the first session. Any subsequent MP3 audio tracks recorded in later sessions can also be played back.
- This system can play Multi Session CDs when a JPEG image file is contained in the first session. Any subsequent JPEG image files recorded in later sessions can also be played back.
- If audio tracks and images in music CD format or video CD format are recorded in the first session, only the first session will be played back.
- CD-R and CD-RW discs recorded in multi-session that have not ended by “closing the session” are not supported.

Copyrights

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Hooking up the system

Perform the following procedures **1** to **8** to hook up your system using the supplied cords and accessories. JAX-D55 is used for illustration purposes.

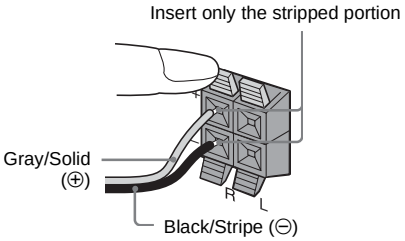


* JAX-D55 only

continued

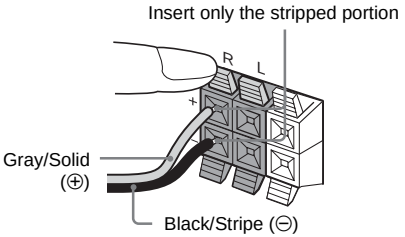
1 **Connect the front speakers.**

Connect the right and left speaker cords to the FRONT SPEAKER jacks as shown below.



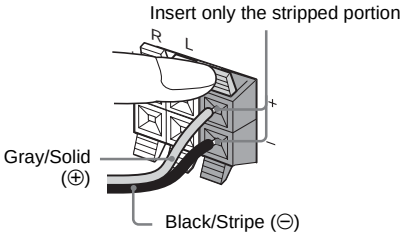
2 **Connect the surround speakers. (JAX-D55 only)**

Connect the speaker cords to the SURROUND SPEAKER jacks as shown below.



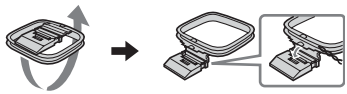
3 **Connect the center speaker. (JAX-D55 only)**

Connect the speaker cords to the CENTER SPEAKER jacks as shown below.

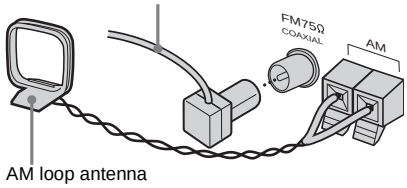


4 **Connect the FM and AM antennas.**

Set up the AM loop antenna, then connect it.



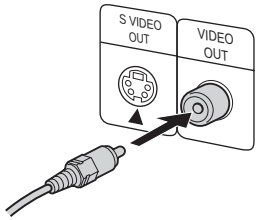
Extend the FM lead antenna horizontally



Note

Keep the antennas away from the speaker cords.

5 **Connect the video input jack of your TV to the VIDEO OUT jack with the supplied video cable.**

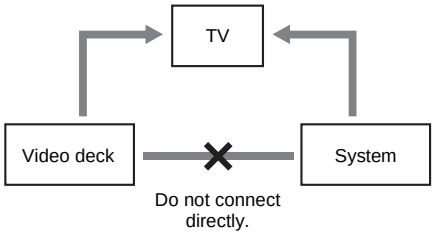


When using a TV

Turn on the TV and select the video input so that you can view the pictures from this system.

When connecting a video deck

Connect the TV and the video deck using video and audio cords (not supplied) as shown below.



If you connect a video deck between this system and the TV, you may experience video leakage when watching the video signal from this system. Do not connect a video deck between this system and the TV.

Note

Do not place the TV on this system.

Tip

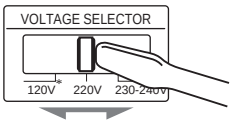
For even higher quality video images:

– Use an optional component video cord to connect the COMPONENT VIDEO input jacks on your TV to the COMPONENT VIDEO OUT jacks of this system. If your TV is compatible with progressive format file signals, use this connection and set "COMPONENT OUT" to "PROGRESSIVE" in "Adjusting the TV screen" (page 28).

– You can use an optional S video cord to connect the S VIDEO input jack on your TV to the S VIDEO OUT jack.

6 For models with a voltage selector, set VOLTAGE SELECTOR to the local power line voltage.

Depending on the model, the VOLTAGE SELECTOR may differ.



* Saudi Arabian model: 120 – 127 V

7 Connect the power cord to a wall outlet.

The demonstration appears in the display. When you press **I/⏻**, the system turns on and the demonstration automatically ends. If the supplied adapter on the plug does not fit your wall outlet, detach it from the plug (only for models equipped with an adapter).

8 Set the color system to PAL or NTSC depending on the color system of your TV.

The color system is factory set to NTSC for region code 3 models, and PAL for other region code models. Each time you perform the procedure below, the color system changes as follows:

NTSC ⟷ PAL

1 Press **I/⏻** to turn off the system.

2 Press **I/⏻** on the unit while holding down **▮▮** on the unit.
The system turns on and the color system is changed.

Notes

- The type of speakers supplied varies according to the model you purchased (see "Specifications" on page 65).
- Do not place the surround speakers on top of a TV.* This may cause distortion of the colors in the TV screen.
- Be sure to connect both left and right surround speakers.* Otherwise, the sound will not be heard.
- You cannot set the color system in Power Saving Mode (page 49).
- When you play back a VIDEO CD recorded in a different color system from the one you set to the unit, the picture image may be distorted.

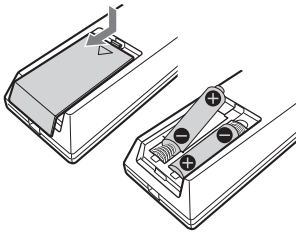
* JAX-D55 only

To connect optional components

See page 53.

continued

Inserting two R6 (size AA) batteries into the remote



Note

If you do not use the remote for a long period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

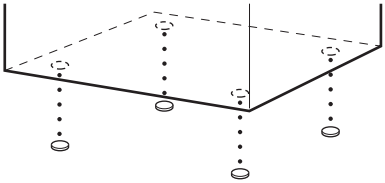
Tip

With normal use, the batteries should last for about six months. When the remote no longer operates the system, replace both batteries with new ones.

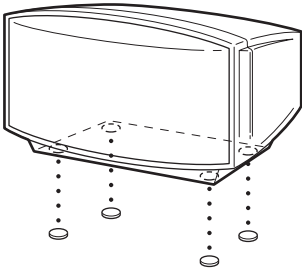
Attaching the speaker pads

Attach the supplied speaker pads to the bottom of the speakers to stabilize the speakers and prevent them from slipping.

Front speaker (Left (4)/Right (4))[1)]



Center speaker (4)[2)]/
Surround speaker (Left (4)/Right (4))[2)]



[1)] JAX-D33 only

[2)] JAX-D55 only

When carrying this system

Perform the following procedure to protect the DVD mechanism.
Use buttons on the unit for the operation.

1 Press **I**/⏻ to turn on the system, then press DVD.

2 Make sure that all discs are removed from the system.

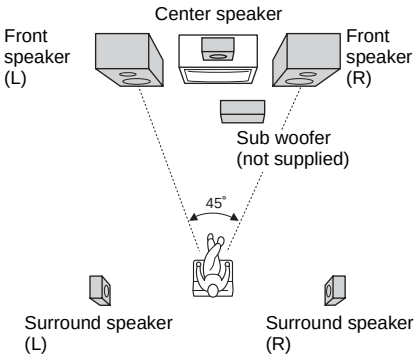
3 Hold down DVD, then press **I**/⏻ until "STANDBY" appears.
Check that "LOCK" appears.

4 Unplug the power cord.

Positioning the speakers

(JAX-D55 only)

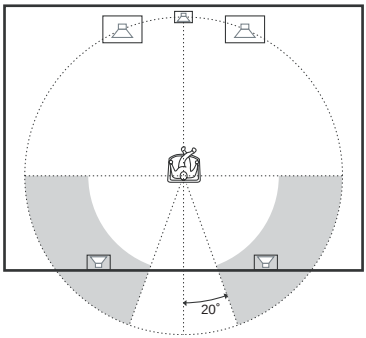
1 Place the front speakers at an angle of 45 degrees from your listening position.



2 Place the center speaker at about the same height as the front speakers.

Align the center speaker with the front speakers or place it slightly behind the front speakers.

3 Place the surround speakers.



Position the surround speakers within the respective gray ranges.

Positioning both surround speakers the same distance from the listening position is effective.

4 Place the sub woofer.*

To obtain a better bass reproduction, we recommend you to place the sub woofer on a solid floor where resonance is unlikely to occur.

Notes

- Do not place the surround speakers on top of a TV. This may cause distortion of the colors in the TV screen.
- Always place the sub woofer vertically, keeping it a few centimeters away from the wall.*
- If the sub woofer is placed in the center of a room, the bass could be extremely weakened. This is due to the influence of the standing wave of the room. If this happens, move the sub woofer away from the center of the room or eliminate the cause of the standing wave, by placing a bookshelf against the wall, etc.*
- For JAX-D55, when mounting the surround speakers on the wall, be sure to mount the speakers on walls having sufficient thickness and strength using commercially available screws.

* When you use an optional sub woofer

Speaker settings

To enjoy DVDs and other discs with multi-channel sound and Dolby surround effects, the speakers need to be adjusted. Set the distance from the listening position to the speakers, and the balance and level. Then use the test tone to adjust the volume of each speaker to the same level.

For details, see “Speaker settings” on page 34.

Setting the clock

Use buttons on the remote for the operation.

1 Press I/⏻ to turn on the system.

2 Press CLOCK/TIMER SET.

3 Press ↑ or ↓ repeatedly to set the hour.

4 Press ENTER.

5 Press ↑ or ↓ repeatedly to set the minute.

6 Press ENTER.

The clock starts working.

To adjust the clock

1 Press CLOCK/TIMER SET.

2 Press ↑ or ↓ to select “CLOCK SET”, then press ENTER.

3 Do the same procedures as step 3 to 6 above.

Notes

- The clock settings are canceled when you disconnect the power cord or if a power failure occurs.
- You cannot set the clock in Power Saving Mode (page 49).

Performing QUICK SETUP

You can set the initial settings of LANGUAGE SETUP, ROOM SIZE, LISTENING POSITION and TV TYPE step by step.
After performing the Quick Setup, the system is ready for playing back of movies, music CDs, etc. To perform further speakers settings, see “Speaker settings” on page 34.
The Asian model is used for illustration purposes only.

For JAX-D55

1 Turn on your TV and select the video input.

2 Press I/⏻ to turn on the system.

3 Press FUNCTION + or – repeatedly (or DVD on the unit) to switch the function to DVD.

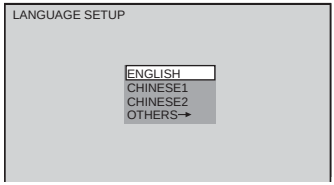
The guide message appears on the TV screen.

Note

When a disc is in the system or the disc tray opens, the guide message does not appear on the TV screen.

4 Press ENTER.

“LANGUAGE SETUP” appears.

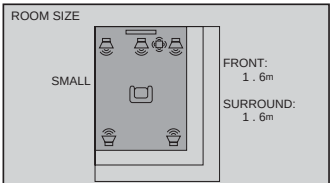


The language you select in “LANGUAGE SETUP” is for “OSD”, “DVD MENU” and “SUBTITLE” (page 26).

When “OTHERS→” appears, you can select “OTHERS→” to select the language from the language code list using the number buttons (page 68). The selected language code (4-digit) is displayed the next time you select “OTHERS→”. You can select the language for the DVD menu (“DVD MENU”) and the language of the subtitle (“SUBTITLE”).

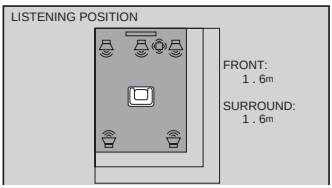
5 **Press ↑ or ↓ repeatedly to select a language, then press ENTER.**

The setting is selected.
"ROOM SIZE" appears.



6 **Press ↑ or ↓ repeatedly to select a suitable room size from "SMALL", "MEDIUM" or "LARGE", then press ENTER.**

The setting is selected and "LISTENING POSITION" appears.

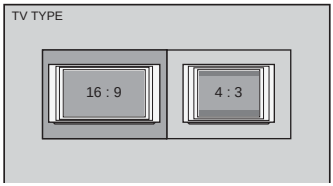


The "LISTENING POSITION" number you can select varies, depending on the "ROOM SIZE" setting.

SMALL	Three positions
MEDIUM	Four positions
LARGE	Five positions

7 **Press ↑ or ↓ repeatedly to select a suitable listening position, then press ENTER.**

The setting is selected and "TV TYPE" appears.



8 **Press ← or → repeatedly to select a TV type connecting to the system, then press ENTER.**

"QUICK SETUP" is complete.

For JAX-D33

1 **Turn on your TV and select the video input.**

2 **Press I/⏻ to turn on the system.**

3 **Press FUNCTION + or – repeatedly (or DVD on the unit) to switch the function to DVD.**

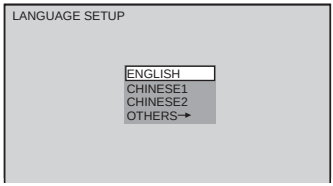
The guide message appears on the TV screen.

Note

When a disc is in the system or the disc tray opens, the guide message does not appear on the TV screen.

4 **Press ENTER.**

"LANGUAGE SETUP" appears.



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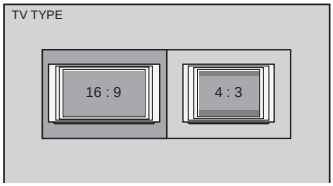
When "OTHERS→" appears, you can select "OTHERS→" to select the language from the language code list using the number buttons (page 68). The selected language code (4-digit) is displayed the next time you select "OTHERS→". You can select the language for the DVD menu ("DVD MENU") and the language of the subtitle ("SUBTITLE").

5 **Press ↑ or ↓ repeatedly to select a language, then press ENTER.**

The setting is selected.
"TV TYPE" appears.



continued

6 Press ← or → repeatedly to select a TV type connecting to the system, then press ENTER.

"QUICK SETUP" is complete.

If you make a mistake

Press ↩ RETURN, then select the item again.

To quit QUICK SETUP

Press DVD SETUP.

To change settings of QUICK SETUP

1 Press DVD SETUP in stop mode.
The Setup Display appears.

2 Press ↑ or ↓ repeatedly to select "SET UP", then press ENTER.

3 Press ↑ or ↓ repeatedly to select "QUICK", then press ENTER.
"LANGUAGE SETUP" appears.

4 Change each setting following the same procedures from step 5.

Notes

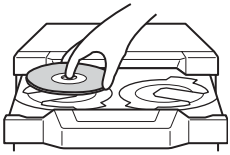
- Only when you turn on the system for the first time, or after performing "RESET" (page 61), the guide message appears.
- When you select "4:3" in "TV TYPE", "4:3 LETTER BOX" is selected (page 28).
- For JAX-D55, depending on selected position in "LISTENING POSITION" or "ROOM SIZE", the distance and level of each speaker will be set automatically.
- When a disc is in the system, the guide message does not appear on the TV screen. To perform QUICK SETUP, press ⏏ to remove the disc, press I/⏻ to turn the system off, then press I/⏻ again to turn the system on.
- If you want to change each setting, see "DVD – Various functions" on page 25.
- For JAX-D55, the illustrations displayed for "ROOM SIZE" and "LISTENING POSITION" are only examples and may differ from the actual room size and layout. The settings for "SPEAKER SETUP" (page 34) do not appear on these displays.

Loading a disc

Use buttons on the unit for the operation.

1 **Press ⏏.**

2 **Place a disc with the label side up on the disc tray.**



To insert additional discs, press DISC SKIP/EX-CHANGE to rotate the disc tray.

3 **Press ⏏ again to close the disc tray.**

Notes

- Do not use a disc with tape, seals or paste on it as this may cause malfunction.
- Do not forcibly press the disc tray closed with your finger, as this may cause malfunction.

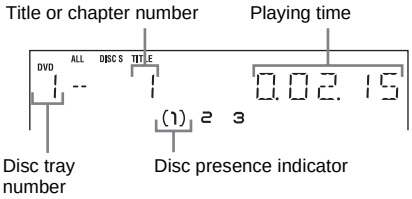
Playing a disc

— Normal Play/Shuffle Play

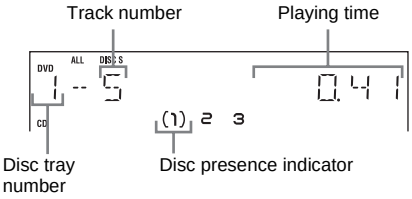
DVD VIDEO CD CD MP3 JPEG

Before playing a DVD, VIDEO CD or JPEG, turn on your TV and select the video input. Depending on the DVD or VIDEO CD, some operations may be different or restricted. Refer to the operating instructions supplied with the disc.

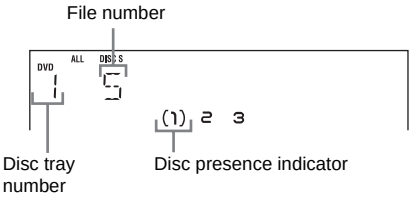
Example: When a DVD disc is loaded



Example: When a CD disc is loaded



Example: When a JPEG disc is loaded



continued

1 Press FUNCTION + or – repeatedly (or DVD on the unit) to switch the function to DVD.

2 Press PLAY MODE repeatedly in stop mode until the mode you want appears in the display.

Select	To play
ALL DISCS (Normal Play)	All discs in the disc tray continuously.
1DISC (Normal Play)	The tracks on the disc you have selected in original order.
ALBM (Normal Play)	All MP3 audio tracks or JPEG image files in the album on the disc you have selected in original order. When playing a non-MP3/JPEG disc, Album Play performs the same operation as 1DISC Play.
ALL DISCS SHUF (Shuffle Play)*	All tracks on all discs in random order.
1DISC SHUF (Shuffle Play)*	All tracks on the disc you have selected in random order.
ALBM SHUF (Shuffle Play)*	The MP3 audio tracks in the album on the disc you have selected in random order. When playing a non-MP3 disc, Album Shuffle Play performs the same operation as 1DISC SHUF Play.
PGM (Program Play)*	The tracks on all discs in the order you want them to be played (see "Creating your own program" on page 20).

* You cannot perform Shuffle Play and Program Play with DVD and JPEG.

3 Press ◄►.

Notes

- You cannot change the play mode during play.
- "ALBM" or "ALBM SHUF" appears even if you have selected a non-MP3/JPEG disc or MP3/JPEG disc with no albums. In this case, Album Play or Album Shuffle Play performs the same operation as 1DISC play or 1DISC SHUF Play, respectively.

Tip

You can change the play mode between 1DISC, ALL DISCS and ALBM using the on-screen display as follows:

1 Press DVD DISPLAY in stop mode.
The Control Menu appears.
2 Press ↑ or ↓ to select "PLAY MODE", then press ENTER.
3 Press ↑ or ↓ to select desired play mode, then press ENTER.

Other operations

To	Do this
Stop play	Press ■.
Pause (Except for JPEG)	Press ❚❚.[1)] Press ❚❚ again to resume play.
Select a track, image or chapter	Press ⏮ or ⏭ repeatedly (or turn AMS operation dial on the unit) during play or pause.
Select an album of MP3 or JPEG	Press ALBUM + or – repeatedly after step 2.
Locate a point quickly in fast forward or fast reverse (Lock Search) (Except for MP3/JPEG)[2)]	Press ◄◄ or ►► during play. For DVD or VIDEO CD, each time you press the button, searching speed changes as follows: 1 (slow) ↔ 2 (faster than 1) For CD, searching speed does not change (1 (slow) play). To return to Normal Play, press ◄►.
Watch frame by frame (Slow-motion Play) (DVD/VIDEO CD only)[1)2)]	Press ❚❚ during play, then press SLOW ◄❚ or ❚►. Each time you press the button, the playback speed changes as follows: Playback direction 2 ❚► ↔ 1 ❚► Opposite direction (DVD only) 2 ◄❚ ↔ 1 ◄❚ To return to Normal Play, press ◄►.

To	Do this
Enjoy the Slide show (only one direction) (JPEG only)	Press ▶▶ while displaying a JPEG image. Each time you press ▶▶ during Slide show, the interval time of Slide show changes. To return to Normal Play, press ◀▶.
Rotate the current image (JPEG only)[3)]	Press ← or →. Each time you press →, the image turns clockwise by 90º. Each time you press ←, the image turns counterclockwise by 90º.
Select a disc in stop mode	Press DISC SKIP (or DISC 1 – 3 or DISC SKIP/EX-CHANGE on the unit).
Switch to DVD function from another source	Press DISC 1 – 3 on the unit (Automatic Source selection).
Exchange other discs while playing	Press DISC SKIP/EX-CHANGE on the unit.
Remove a disc	Press ⏏ on the unit.

1) There may be some disturbance in the video image.
2) No sound is output.
3) You cannot rotate the image during Slide show. Press ◀▶ to return to Normal Play before this operation.

Notes

- If DVD playback is paused for approximately one hour, the system automatically turns off.
- Depending on the DVD or VIDEO CD, some operations may be restricted.
- 2 channel sound is heard when using headphones.
- Maximum number of albums on a disc: 99 (The maximum number of MP3 audio tracks or JPEG image files that can be contained on an album is 250.)
- Playback is possible up to 8 levels.
- An album that does not include an MP3 audio track or JPEG image file is skipped.
- If you put the extension ".MP3" to data not in MP3 format, the system cannot recognize the data properly and will generate a loud noise which could damage your speaker system.
- When playing the data disc (CD-ROM/CD-R/CD-RW) contained MP3 audio tracks and JPEG image files, select "CUSTOM SETUP" from the setup items, then set "DATA CD PRIORITY" (page 27).
- The following discs take a longer time to start playback.
  - a disc recorded with complicated tree structure.
  - a disc recorded in Multi Session.
  - a disc to which data can be added (non-finalized disc).
- Some CD-Rs or CD-RWs cannot be played on this system depending on file format.

Tip

When disc access takes a long time, set "DVD PWR ON" by DVD power manage function (page 38).

continued

Resuming playback from the point you stopped the disc

— Resume Play (Except for JPEG)

This system memorizes the point where you stopped the disc so you can resume from that point. Resume Play is not canceled when you turn off the system.

1 While playing a disc, press ■ to stop playback.
"RESUME" appears in the display. If "RESUME" does not appear, Resume Play is not available.

2 Press ◄►.
The player starts playback from the point you stopped the disc in step 1.

Notes

- You cannot perform Resume Play during Shuffle Play or Program Play.
- Depending on where you stopped the disc, the system may resume playback from a different point.
- Resume play is canceled when:
  - you press ■ or DISC SKIP in stop mode.
  - you disconnect the power cord.
  - you open the disc tray.
  - you change the play mode.
  - you change the settings using the DVD DISPLAY or DVD SETUP button.

Playing a track by entering the track number (on the remote only)

Press the number button(s) to enter the track number of the track you want to play. (To enter the MP3 audio track number, press ALBUM + or – repeatedly to select the desired album before entering the number.)

To enter a track number over 10

1 Enter the corresponding digits.
To enter 0, press 10/0.

2 Press ENTER.

Example:

To play track number 30, press 3 and 10/0, then press ENTER.
To play MP3 track number 100, press 1, 10/0 and 10/0, then press ENTER.

Playing DVDs using the menu

DVD

Some DVDs have menus to help you enjoy the DVDs. You can play DVDs using these menus on the TV screen.

• Using the DVD top menu

A DVD is divided into long sections of a picture or a music feature called "titles". When you play a DVD which contains several titles, you can select the title you want using the menu.

• Using the DVD menu

Some DVDs allow you to select the disc contents using a menu. When you play these DVDs, you can select items such as the language for the subtitles and the language for the sound using the DVD menu.

1 **Press DVD TOP MENU or DVD MENU.**
The menu appears on the TV screen. The contents of the menu vary from disc to disc.

2 **Press ↑/↓/←/→ or the number buttons to select the title or item you want to play.**

3 **Press ENTER.**

Note

If the DVD top menu or a DVD menu is displayed during DVD playback for approximately one hour, the system automatically turns off.

Playing VIDEO CDs with PBC functions (Ver. 2.0)

— PBC Play

VIDEO CD

You can use PBC* menus on your TV screen to enjoy the disc's interactive software. The menu format and structure may differ depending on each disc.

* PBC: Playback Control

1 **Press ◄► to start playing a VIDEO CD with PBC functions (Ver. 2.0).**

The PBC menu appears on the TV screen.

2 **Press ↑/↓ or the number buttons to select the item number you want.**

3 **Press ENTER.**

4 **Continue playback according to the instructions on the menus to enjoy interactive playback.**

Refer to the operating instructions supplied with the disc, as the operating procedure may differ according to the VIDEO CD.

To go back to a previous menu

Press ↩ RETURN.

Notes

- Depending on the VIDEO CD, the menu does not appear in step 1.
- Depending on the VIDEO CD, "Press ENTER" in step 3 may appear as "Press ◄►" in the operating instructions supplied with the disc. In this case, press ◄►.

Tip

You can cancel playback with PBC functions.

1 In stop mode, press I◄◄ or ►►I, or the number buttons to select a track.

2 Press ◄►.

"Play without PBC" appears on the TV screen and playback starts from the selected track. Still images, such as the menu screens, will not be shown.

To return to PBC playback, press ■ twice, then press ◄►.

Playing repeatedly

— Repeat Play

DVD VIDEO CD CD MP3 JPEG

You can play all the titles/tracks/files or a single title/chapter/track on a disc repeatedly.

Using the front panel display

Press REPEAT during play until "REP" or "REP1" appears.

REP: For all the tracks/files[1)] on the disc(s)[2)] up to five times.

REP1: For a single title[3)]/chapter[3)]/track only.

[1)] During Slide show only

[2)] When "ALBM" is selected for MP3 or JPEG, all the tracks/files in the album are repeated.

[3)] For DVD, you can check whether a title or chapter is being repeatedly played on the TV screen.

To cancel Repeat Play

Press REPEAT repeatedly until both "REP" and "REP1" disappear.

Notes

- Depending on the DVD, you cannot perform Repeat Play.
- You cannot perform Repeat Play during PBC playback of VIDEO CDs (page 19).
- You cannot select "REP1" during Program Play and displaying a JPEG image.
- When you select "REP1", that title/chapter/track is repeated endlessly until "REP1" is canceled.
- You cannot select "REP" and "ALL DISCS SHUF" at the same time.

Using the on-screen display

1 **Press DVD DISPLAY during play.**

The Control Menu appears.

2 **Press ↑ or ↓ repeatedly to select "REPEAT", then press ENTER.**

If you do not select "OFF", the "REPEAT" indicator lights up in green.

3 **Press ↑ or ↓ repeatedly to select the Repeat Play setting.**

The default settings are underlined.

continued

■ When playing a DVD

- OFF: does not play repeatedly.
- ALL[1]: repeats all the titles.
- TITLE: repeats the current title on a disc.
- CHAPTER: repeats the current chapter.

■ When playing a VIDEO CD/CD/MP3 when Program Play is set to OFF

- OFF: does not play repeatedly.
- ALL[1]: repeats all the tracks on a disc, or all the tracks in the current album[2].
- TRACK: repeats the current track.

■ When playing a JPEG

- OFF: does not play repeatedly.
- ALL: repeats all the files on the disc, or repeats the current album[2].

■ When Program Play is set to ON

- OFF: does not play repeatedly.
- ALL: repeats Program Play.

4 Press ENTER.

Repeat Play starts.

[1] When "SHUFFLE (ALL)" is selected, you can select the Repeat Play of "TITLE", "CHAPTER" or "TRACK" only, and "ALL" will not appear.

[2] When "CONTINUE (ALBUM)" is selected for MP3 or JPEG or "SHUFFLE (ALBUM)" is selected for MP3.

To cancel Repeat Play

Select "OFF" in step 3.

To turn off the Control Menu

Press DVD DISPLAY repeatedly until the Control Menu disappears.

Notes

- Depending on the DVD, you cannot perform Repeat Play.
- You cannot perform Repeat Play during PBC playback of VIDEO CDs (page 19).
- If you select "ALL", the program repeats up to five times.

Tips

- You can set Repeat Play when the playback is stopped. Press REPEAT repeatedly to select the setting, then press ◄► to start Repeat Play.
- You can quickly display the "REPEAT" status. Press REPEAT.

Creating your own program

— Program Play

VIDEO CD CD MP3

You can make a program of up to 25 steps. You can synchro record the programmed tracks onto a cassette tape (page 42).

Using the front panel display

1 Press FUNCTION + or – repeatedly (or DVD on the unit) to switch the function to DVD.

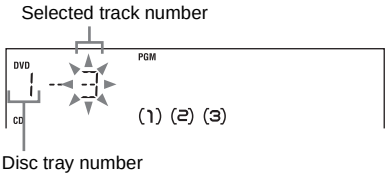
2 Press PLAY MODE repeatedly in stop mode until "PGM" appears.

3 Press DISC SKIP (or DISC 1 – 3 or DISC SKIP/EX-CHANGE on the unit) to select a disc.

To program all the tracks on a disc at once, proceed to step 5 with "AL" displayed.

4 Press I◄◄ or ►►I repeatedly (or turn AMS operation dial on the unit) until the desired track number appears.

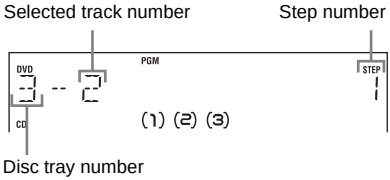
When programming an MP3, press ALBUM + or – to select album, then press I◄◄ or ►►I repeatedly (or turn AMS operation dial on the unit) until the desired track number appears.



5 **Press ENTER.**

The disc, album or track is programmed.

The program step number appears, followed by the disc tray number. "AL", the album number or the track number appears.



6 **Program additional discs, albums or tracks.**

To program	Repeat steps
Other discs	3 and 5
Other tracks or albums on the same disc	4 and 5
Other tracks or albums on other discs	3 to 5

7 **Press ◄►.**

Program Play starts.

To clear a programmed step from the end of a program

Press CLEAR in step 6.

Note

When you switch the play mode to "PGM" while "REP1" is selected, "REP1" is automatically canceled.

Tip

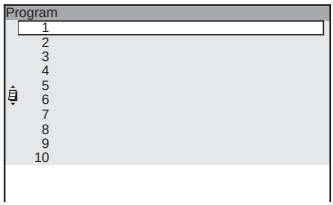
The program you made remains after Program Play finishes. To play the same program again, press FUNCTION + or – repeatedly (or DVD on the unit) to switch the function to DVD, then press ◄►.

Using the on-screen display

1 **Press FUNCTION + or – repeatedly (or DVD on the unit) to switch the function to DVD.**

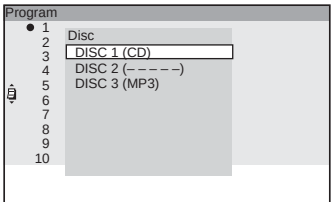
2 **Press PLAY MODE repeatedly in stop mode until "PGM" appears in the display.**

The Program Display appears on the TV screen.



3 **Press ➡.**

The disc list appears.



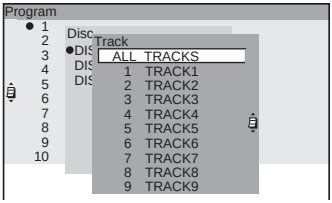
4 **Press ↑ or ↓ repeatedly to select a disc.**

To program all the tracks on a disc at once, press ENTER after selecting the desired disc, then proceed to step 7.

continued

5 **Press ➡.**

The album or track list appears.

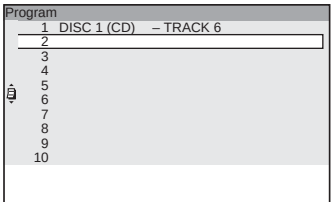


When the list of all tracks cannot be displayed on the window, the jump bar appears. Press ➡ to select the jump bar icon, and then scroll the jump bar to display the rest of the list using ↑ or ↓. Press ← or ↩ RETURN to return to the track list.

6 **Select the album or track you want to program.**

■ When programming a VIDEO CD or CD

For example, select track “6”.
Press ↑/↓ or the number buttons to select “6”, then press ENTER.

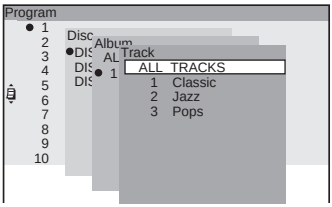


To program all the tracks on a disc, press ↑ or ↓ to select “ALL TRACKS”, then press ENTER.

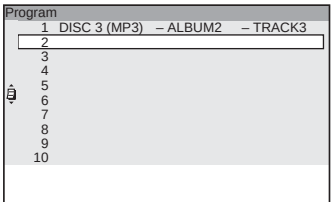
■ When programming an MP3

For example, select track “3” of album “2”.
Press ↑ or ↓ to select “2”, then press ➡.

To program all the tracks of an album, press ↑ or ↓ to select “ALL TRACKS”, then press ENTER.



Next, press ↑/↓ or the number buttons to select “3”, then press ENTER.



To program all the albums on a disc, press ↑ or ↓ to select “ALL ALBUMS”, then press ENTER.

7 **To program other discs, albums or tracks, repeat steps 3 to 6.**

8 **Press ◄►.**

Program Play starts.

Other operations

To	Do this
Cancel Program Play	Press PLAY MODE repeatedly in stop mode until “PGM” disappears.
Turn off the Program Display	Press PLAY MODE in stop mode.
Check the program	When the list of all programmed steps cannot be displayed on the window, press ← to select the jump bar icon, and then scroll the jump bar to display the rest of the list using ↑ or ↓. Press ➡ or ↩ RETURN to return to the programmed step list.
Clear a programmed step from the end of program	Press CLEAR in step 7.

Notes

- Program Play function is not available for DVD and JPEG.
- When you switch the play mode to “PGM” while “REP1” is selected, “REP1” is automatically canceled.

Tip

The program you made remains after Program Play finishes. To play the same program again, press FUNCTION + or – repeatedly (or DVD on the unit) to switch the function to DVD, then press ◄►.

Using the on-screen display to search

DVD VIDEO CD CD MP3 JPEG

You can search for a title (DVD), chapter (DVD), track (CD, VIDEO CD, MP3), index (VIDEO CD), album (MP3, JPEG) and file (JPEG). As titles, tracks, albums and files are assigned unique numbers on the disc, you can select the desired one from the Control Menu. Also chapters and indexes are assigned unique numbers on the disc, so you can select the desired one by entering its number. Or, you can search for a particular point using the time code (Time Search).

Searching for a title/track/album/file

1 **Press DVD DISPLAY.**

The Control Menu appears.

2 **Press ↑ or ↓ repeatedly to select the search method.**

■ When playing a DVD

"TITLE"

■ When playing a VIDEO CD without PBC function

"TRACK"

■ When playing a CD

"TRACK"

■ When playing an MP3

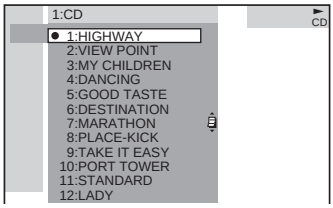
"ALBUM" or "TRACK"

■ When playing a JPEG

"ALBUM" or "FILE"

3 **Press ENTER.**

The list of contents in the disc appears.



When the list of all tracks or albums cannot be displayed on the window, the jump bar appears. Press → to select the jump bar icon, and then scroll the jump bar to display the rest of the list using ↑ or ↓. Press ← or RETURN to return to the track or the album list.

4 **Press ↑ or ↓ repeatedly to select the desired title, track, album or file, then press ENTER.**

Playback starts from the selected track, etc.

Searching for a chapter/index

1 **Press DVD DISPLAY.**

The Control Menu appears.

2 **Press ↑ or ↓ repeatedly to select the search method.**

■ When playing a DVD

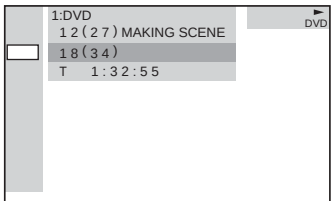
"CHAPTER"

■ When playing a VIDEO CD without PBC function

"INDEX"

"** (**)" is selected (** refers to a number).

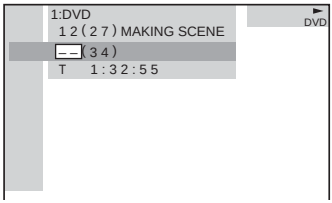
The number in parentheses indicates the total number of chapters or indexes.



continued

3 **Press ENTER.**

"** (**)" changes to "– – (**)".



4 **Press ↑ or ↓ repeatedly, or press the number buttons to select the chapter or index number you want to search.**

If you make a mistake, press CLEAR to cancel the number, then select another number.

5 **Press ENTER.**

The playback starts from the selected number.

To turn off the Control Menu

Press DVD DISPLAY repeatedly until the Control Menu disappears.

To cancel searching

Press ↩ RETURN.

To search for a particular point using the time code

— Time Search

For example, search for the playing time of the current title on a DVD.

1 In step 2, select "TIME".
"T **:**:**" (playing time of the current title) is selected.

2 Press ENTER.
"T – –:– –:– –" appears above "T **:**:**".

3 Input the time code using the number buttons, then press ENTER.
For example, to find the scene at 2 hours, 10 minutes, and 20 seconds after the beginning, enter "2:10:20".

Notes

- The title, chapter or track number displayed on the TV screen is recorded data on the disc.
- You cannot search a scene of a VIDEO CD.
- When playing a VIDEO CD with PBC functions, the index search function does not work.
- The time search function does not work on a VIDEO CD (when the PBC function is on).
- If you play a DVD, input the playing time of the current title using the time code. If you play a CD, VIDEO CD or MP3, input the playing time of the current track using the time code.

Tip

You can change the display to show playing time or remaining time. For details, see "Viewing information about the disc in the on-screen display" on page 51.

Changing the sound/ subtitle/language

DVD VIDEO CD CD MP3 JPEG

Changing the sound (DVD only)

If a DVD is recorded with multilingual tracks, you can select the language you want while playing the DVD. If the DVD is recorded in multiple audio formats (PCM, Dolby Digital, MPEG audio or DTS), you can select the audio format you want while playing the DVD.

1 Press DVD DISPLAY during play.

The Control Menu appears.

2 Press ↑ or ↓ repeatedly to select "AUDIO", then press ENTER.

The options for "AUDIO" appear.

3 Press ↑ or ↓ repeatedly to select the audio signal you want.

Depending on the DVD, the choice of the language and audio format varies.

When a 4-digit code is displayed, it represents the language code (see "Language code list" on page 68). When the same language is displayed twice or more times, the DVD is recorded in multiple audio formats.

4 Press ENTER.

To turn off the Control Menu

Press DVD DISPLAY repeatedly until the Control Menu disappears.

Notes

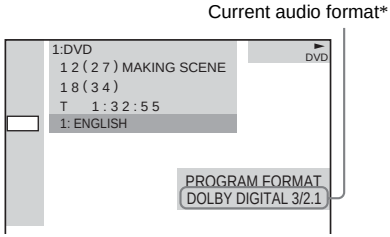
- For discs not recorded in multiple audio format, you cannot change the sound.
- During DVD playback, the sound may change automatically.

Tip

You can select the audio setting by pressing AUDIO. Each time you press the button, the setting changes.

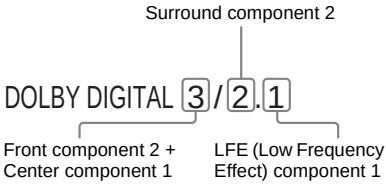
Displaying the audio information of the disc (DVD only)

When you select "AUDIO", the channels being played are displayed on the TV screen.
For example, in Dolby Digital format, multiple signals ranging from monaural to 5.1 channel signals can be recorded on a DVD. Depending on the DVD, the number of recorded channels may differ.



* "PCM", "DTS" or "DOLBY DIGITAL" is displayed. For "DOLBY DIGITAL", the channels in the playing track are displayed numerically as follows:

For Dolby Digital 5.1 ch:



continued

The display examples are as follows:

- PCM (stereo)

```
PROGRAM FORMAT
PCM 48kHz 24bit
```

- Dolby Surround

```
PROGRAM FORMAT
DOLBY DIGITAL  2/0
DOLBY SURROUND
```

- Dolby Digital 5.1 ch

```
PROGRAM FORMAT
DOLBY DIGITAL 3/2.1
```

- DTS

```
PROGRAM FORMAT
DTS 3/2.1
```

Displaying the subtitles (DVD only)

With DVDs on which multilingual subtitles are recorded, you can change the subtitle language while playing a DVD, or turn the subtitles on or off whenever you want.
For example, you can select the language you want to master and turn the subtitles on for better understanding.

1 Press DVD DISPLAY during play.

The Control Menu appears.

2 Press ↑ or ↓ repeatedly to select "SUBTITLE", then press ENTER.

The options for "SUBTITLE" appear.

3 Press ↑ or ↓ repeatedly to select the language you want, then press ENTER.

The subtitles are displayed in the selected language.
When a 4-digit code is displayed, it represents the language code (see "Language code list" on page 68).

To cancel the SUBTITLE setting

Select "OFF" in step 3.

To turn off the Control Menu

Press DVD DISPLAY repeatedly until the Control Menu disappears.

Note

Depending on the DVD, you may not be able to change the subtitles even if multilingual subtitles are recorded on the DVD.

Tip

You can select the subtitle language by pressing SUBTITLE. Each time you press the button, the language changes.

Changing the screen display language, DVD menu language and audio track auto selection mode

— LANGUAGE SETUP/CUSTOM SETUP

1 Press DVD SETUP in stop mode.

The Setup Display appears.

2 Press ↑ or ↓ repeatedly to select "LANGUAGE SETUP" or "CUSTOM SETUP", then press ENTER.

Select	Setup item
LANGUAGE SETUP	OSD
	DVD MENU
	AUDIO
	SUBTITLE
CUSTOM SETUP	TRACK SELECTION
	AUDIO DRC
	DATA CD PRIORITY
	JPEG DATE

3 Press ↑ or ↓ repeatedly to select an item, then press ENTER.

4 Press ↑ or ↓ repeatedly to select a setting, then press ENTER.

Note

When the selected language is not recorded on the DVD, one of the recorded languages is automatically selected (except for "OSD").

Tips

- You can reset all the DVD settings except for Parental Control by performing the operations described under “To return the DVD setup to the default settings*, perform reset as follows:” (page 61).
- If you select “OTHERS→” in “DVD MENU”, “AUDIO” or “SUBTITLE”, select and enter the language code from the language code list using the number buttons (page 68). The selected language code (4-digit) is displayed the next time you select “OTHERS→”.

* Except for Parental Control settings

■ OSD (on-screen display)

Switches the display language on the TV screen. Select the language from the displayed list.

■ DVD MENU (DVD only)

Select the language for the DVD menu.

■ AUDIO (DVD only)

Switches the language of the sound track. Select the language from the displayed list.

■ SUBTITLE (DVD only)

Switches the language of the subtitle. Select the language from the displayed list.

■ TRACK SELECTION (DVD only)

Gives the priority to the sound track which contains the highest number of channels when you play a DVD on which multiple audio formats (PCM, MPEG audio, DTS or Dolby Digital format) are recorded.
The default setting is underlined.

OFF	No priority given.
AUTO	Priority given.

Notes

- When you set to “AUTO”, the language setting may change. The “TRACK SELECTION” setting has higher priority than the “AUDIO” setting in “LANGUAGE SETUP”.
- If PCM, MPEG audio, DTS and Dolby Digital sound tracks have the same number of channels, the system selects PCM, DTS, Dolby Digital and MPEG audio sound tracks in this order.
- Depending on the DVD, the audio channel with priority may be predetermined. In this case, you cannot give priority to the DTS, Dolby Digital or MPEG audio format by selecting “AUTO”.

■ AUDIO DRC (Dynamic Range Compression)

Narrows the dynamic range of the soundtrack. Useful for watching movies at low volume late at night.
The default setting is underlined.

OFF	No compression of dynamic range.
STANDARD	Reproduces the sound track with the kind of dynamic range that the recording engineer intended.
MAX	Narrows the dynamic range fully.

Note

AUDIO DRC only works in Dolby Digital.

■ DATA CD PRIORITY (MP3, JPEG only)

Set priority data you want to play, when you play the data disc (CD-ROM/CD-R/CD-RW) contained MP3 audio tracks and JPEG image files.
The default setting is underlined.

MP3	If an MP3 file exists on the disc, the system recognises the disc as an “MP3 Disc”. If only JPEG files exist on the disc, the system recognises the disc as a “JPEG Disc”.
JPEG	If a JPEG file exists on the disc, the system recognises the disc as a “JPEG Disc”. If only MP3 files exist on the disc, the system recognises the disc as an “MP3 Disc”.

■ JPEG DATE

Change the date information order of a JPEG image in the Control Menu as:
The default setting is underlined.

MM/DD/YYYY
YYYY/MM/DD
DD/MM/YYYY
YYYY/DD/MM

YYYY: Year
MM: Month
DD: Day

Adjusting the angle/image

DVD VIDEO CD CD MP3 JPEG

Changing the angles (DVD only)

When playing a DVD on which various angles (multi-angles) for a scene are recorded, the "ANGLE" indicator lights up in green on the TV screen. This means that you can change the viewing angle.
For example, while playing a scene of a train in motion, you can display the view from either the front of the train, the left window of the train or from the right window without having the train's movement interrupted.

1 Press DVD DISPLAY during play.

The Control Menu appears.

2 Press ↑ or ↓ repeatedly to select "ANGLE".

The angle number appears. The number in parentheses indicates the total number of angles. The "ANGLE" indicator lights up in green when angles are recorded on the disc.

3 Press ENTER.

The angle number changes to "–".

4 Press the number buttons or ↑/↓ to select the angle you want, then press ENTER.

The angle is changed to the selected angle.

To turn off the Control Menu

Press DVD DISPLAY repeatedly until the Control Menu disappears.

Note

Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.

Tip

You can select the angle by pressing ANGLE. Each time you press the button, the angle changes.

Adjusting the TV screen

— SCREEN SETUP/CUSTOM SETUP

1 Press DVD SETUP in stop mode.

The Setup Display appears.

2 Press ↑ or ↓ repeatedly to select "SCREEN SETUP" or "CUSTOM SETUP", then press ENTER.

Select	Setup item
SCREEN SETUP	TV TYPE
	SCREEN SAVER
	BACKGROUND
	COMPONENT OUT
CUSTOM SETUP	VCD COLOR SYSTEM

3 Press ↑ or ↓ repeatedly to select an item, then press ENTER.

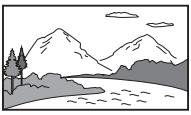
4 Press ↑ or ↓ repeatedly to select a setting, then press ENTER.

■ TV TYPE (DVD only)

Select the aspect ratio of the connected TV. The default setting is underlined.

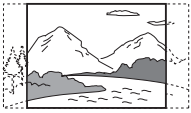
16:9	Select this when you connect a wide-screen TV or a TV with a wide mode function.
4:3 LETTER BOX	Select this when you connect a 4:3 screen TV. This setting displays a wide picture with bands displayed on the upper and lower portions of the screen.
4:3 PAN SCAN	Select this when you connect a 4:3 screen TV. This setting displays the wide picture on the entire screen and cuts off the portions that do not fit.

• 16:9



• 4:3 LETTER BOX

• 4:3 PAN SCAN



Note

Depending on the DVD, “4:3 LETTER BOX” may be selected automatically instead of “4:3 PAN SCAN” or vice versa.

■ SCREEN SAVER

Turn on and off the screen saver. If you turn on the TV screen saver, the screen saver image appears when you leave the player in pause or stop mode for 15 minutes or when you play a CD, disc with MP3 audio tracks or JPEG image files (except for during Slide show) for more than 15 minutes. The screen saver will help prevent your display device from becoming damaged (ghosting). Press any DVD-related button to turn off the screen saver.
The default setting is underlined.

ON	Turns on the screen saver.
OFF	Turns off the screen saver.

■ BACKGROUND

Select the background color or picture on the TV screen when the playback is stopped or while playing a CD.
The default setting is underlined.

JACKET PICTURE	The jacket picture (still picture) appears in the background, but only when the jacket picture is already recorded on the disc (CD-EXTRA, etc.). If the disc does not contain a jacket picture, the “GRAPHICS 1” picture appears.
GRAPHICS 1 – 5	The preset picture stored in the system appears in the background.
BLUE	The background color is blue.
BLACK	The background color is black.

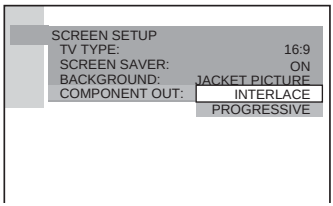
■ COMPONENT OUT

Change the type of signal output from the COMPONENT VIDEO OUT jacks on the system.
The default setting is underlined.

INTERLACE	Select this when you are connected to a standard (interlace format) TV.
PROGRESSIVE	Select this when you have a TV that can accept progressive signals.

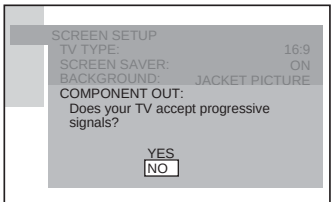
To set to “PROGRESSIVE”

1 Press ↑ or ↓ repeatedly to select “COMPONENT OUT” in “SCREEN SETUP”, then press ENTER.



2 Press ↑ or ↓ repeatedly to select “PROGRESSIVE”, then press ENTER.

The display for confirming appears.



3 Press ↑ or ↓ repeatedly to select “YES”, then press ENTER.

The type of output signal changes to progressive format.

To force the system to switch to interlace when PROGRESSIVE is selected

Make sure the function is set to DVD, then hold down ■ on the unit and press SOUND FIELD.

continued

Notes

- "PROGRESSIVE" does not work for PAL signals. Even if you set "COMPONENT OUT" to "PROGRESSIVE", the output signal is automatically switched to interlace format for PAL signals.
- When "COMPONENT OUT" is set to "PROGRESSIVE", no video signal is output from the VIDEO OUT or S VIDEO OUT jack.
- The display for confirming does not appear when you select "INTERLACE".

■ VCD COLOR SYSTEM

Select the color system when you play a VIDEO CD.

The default setting is underlined.

AUTO	Outputs the video signal in the system of the disc, either PAL or NTSC. If your TV uses a DUAL system, select AUTO.
PAL	Changes the video signal of an NTSC disc and outputs it in the PAL system.
NTSC	Changes the video signal of a PAL disc and outputs it in the NTSC system.

Notes

- You cannot change the color system of the disc itself.
- You can change the color system of this unit according to the connected TV (page 9).

Tip

You can reset all the DVD settings except for Parental Control by performing the operations described under "To return the DVD setup to the default settings*, perform reset as follows:" (page 61).

* Except for Parental Control settings

Restricting disc playback

— CUSTOM PARENTAL CONTROL/ PARENTAL CONTROL

DVD VIDEO CD CD MP3 JPEG

Preventing playback of specific discs

— CUSTOM PARENTAL CONTROL

You can set the playback restrictions so that the system will not play inappropriate discs. You can set the same Custom Parental Control password for up to 25 discs. When you set the twenty-sixth disc, the playback restriction for the first disc is canceled.

1 Insert the disc you want to lock.

If the disc is playing, press ■ to stop play.

2 Press DVD DISPLAY in stop mode.

The Control Menu appears.

3 Press ↑ or ↓ repeatedly to select "CUSTOM PARENTAL CONTROL", then press ENTER.

The "CUSTOM PARENTAL CONTROL" is selected.

4 Press ↑ or ↓ repeatedly to select "ON→", then press ENTER.

■ If you have not entered a password

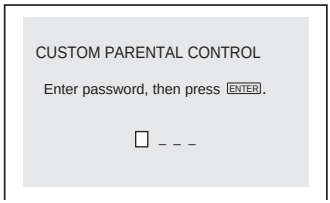
The display for registering a new password appears.

Enter a 4-digit password using the number buttons, then press ENTER.

The display for confirming the password appears.

■ When you have already registered a password

The display for entering the password appears.



5 Enter or re-enter your 4-digit password using the number buttons, then press ENTER.

"Custom parental control is set." appears and the screen returns to the Control Menu.

If you make a mistake entering your password

Press ← before you press ENTER and input the correct number.

If you make a mistake

Press RETURN, then start from step 3 again.

To turn off the Control Menu

Press RETURN, then press DVD DISPLAY repeatedly until the Control Menu disappears.

To turn off the Custom Parental Control function

1 In step 4, select "OFF→", then press ENTER.

2 Enter your 4-digit password using the number buttons, then press ENTER.

To change the password

1 In step 4, select "PASSWORD→", then press ENTER.
The display for entering the password appears.

2 Enter your 4-digit password using the number buttons, then press ENTER.

3 Enter a new 4-digit password using the number buttons, then press ENTER.

4 To confirm your password, re-enter it using the number buttons, then press ENTER.

Playing the disc for which Custom Parental Control is set

1 Insert the disc for which Custom Parental Control is set.

The "CUSTOM PARENTAL CONTROL" display appears.

2 Enter your 4-digit password using the number buttons, then press ENTER.

The system is ready for playback.

Tip

If you forgot your password, enter the 6-digit number "199703" using the number buttons when the "CUSTOM PARENTAL CONTROL" display asks you for your password, then press ENTER. The display will ask you to enter a new 4-digit password.

Limiting playback by children (DVD only)

— PARENTAL CONTROL

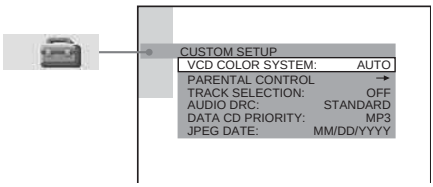
You can limit the playback of some DVDs according to a predetermined level such as the age of the users. The same password is used for both Custom Parental Control and Parental Control.
When a limited scene is played back, that scene is cut or replaced with a preset other scene.

1 Press DVD SETUP in stop mode.

The Setup Display appears.

2 Press ↑ or ↓ repeatedly to select "CUSTOM SETUP", then press ENTER.

The "CUSTOM SETUP" display appears.

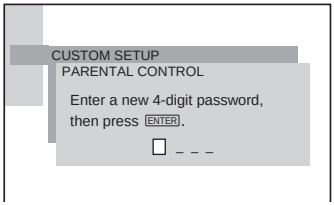


continued

3 **Press ↑ or ↓ repeatedly to select "PARENTAL CONTROL→", then press ENTER.**

■ If you have not entered a password

The display for registering a new password appears.

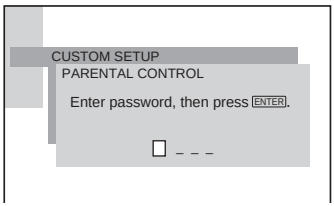


Enter a 4-digit password using the number buttons, then press ENTER.

The display for confirming the password appears.

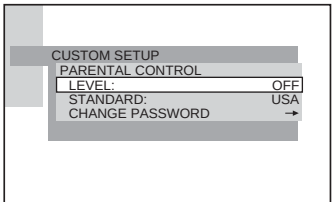
■ When you have already registered a password

The display for entering the password appears.



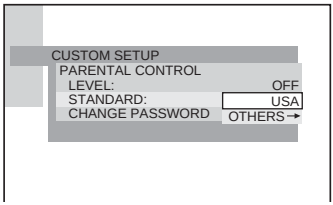
4 **Enter or re-enter your 4-digit password using the number buttons, then press ENTER.**

The display for setting the playback limitation level and changing the password appears.



5 **Press ↑ or ↓ repeatedly to select "STANDARD", then press ENTER.**

The options for "STANDARD" appear.



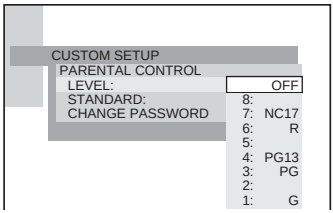
6 **Press ↑ or ↓ repeatedly to select a geographic area as the playback limitation level, then press ENTER.**

The area is selected.

When you select "OTHERS→", select and enter the standard code in the table on page 33 using the number buttons.

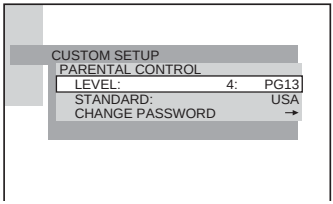
7 **Press ↑ or ↓ repeatedly to select "LEVEL", then press ENTER.**

The options for "LEVEL" appear.



8 **Press ↑ or ↓ repeatedly to select the level you want, then press ENTER.**

The Parental Control setting is completed.



The lower the value, the more strict the limitation.

If you make a mistake

Press ← or RETURN to go back to the previous screen.

To turn off the Parental Control function and play the DVD after entering your password

Set “LEVEL” to “OFF” in step 8.

To change the password

1 In step 5, select “CHANGE PASSWORD→”, then press ENTER. The display for entering the password appears.

2 Follow step 3 to enter a new password.

Playing the disc for which Parental Control is set

1 **Insert the disc and press ◄►.**

The “PARENTAL CONTROL” display appears.

2 **Enter your 4-digit password using the number buttons, then press ENTER.**

Playback starts.

Notes

- When you play DVDs which do not have the Parental Control function, playback cannot be limited on this system.
- Depending on the DVD, you may be asked to change the parental control level while playing the disc. In this case, enter your password, then change the level. If the Resume Play mode is canceled, the level returns to the original level.

Tip

If you forgot your password, remove the disc and repeat steps 1 to 3 of “Limiting playback by children (DVD only)” (page 31). When you are asked to enter your password, enter “199703” using the number buttons, then press ENTER. The display will ask you to enter a new 4-digit password. After you enter a new 4-digit password, replace the disc in the system and press ◄►. When the “PARENTAL CONTROL” display appears, enter your new password.

Area code

Standard	Code number
Argentina	2044
Australia	2047
Austria	2046
Belgium	2057
Brazil	2070
Canada	2079
Chile	2090
China	2092
Denmark	2115
Finland	2165
France	2174
Germany	2109
Hong Kong	2219
India	2248
Indonesia	2238
Italy	2254
Japan	2276
Korea	2304
Malaysia	2363
Mexico	2362
Netherlands	2376
New Zealand	2390
Norway	2379
Pakistan	2427
Philippines	2424
Portugal	2436
Russia	2489
Singapore	2501
Spain	2149
Sweden	2499
Switzerland	2086
Taiwan	2543
Thailand	2528
United Kingdom	2184

Speaker settings

— SPEAKER SETUP

To obtain the best possible surround sound, set the speakers you have connected and their distance from your listening position.
Then use the test tone to adjust the volume and the balance of the speakers to the same level.

Setting the speakers

1 **Press DVD SETUP in stop mode.**
The Setup Display appears.

2 **Press ↑ or ↓ repeatedly to select “SPEAKER SETUP”, then press ENTER.**

3 **Press ↑ or ↓ repeatedly to select “SIZE” or “DISTANCE”, then press ENTER.**

4 **Press ↑ or ↓ repeatedly to select the setup item, then press ENTER.**

5 **Press ↑ or ↓ repeatedly to select or set a setting, then press ENTER.**

To return to the default settings

Select the item to be returned to the default setting and press CLEAR.

■ SIZE

When you do not connect center, surround speakers or sub woofer, or you move the surround speakers, set the parameters for CENTER, SURROUND and SUBWOOFER. Since the front speakers setting is fixed, you cannot change them.
The default settings are underlined.

FRONT	YES
CENTER[1)]	YES: Normally select this position. NONE: Select this when a center speaker is not used.
SURROUND[1)]	YES: Normally select this position. NONE: Select this when surround speakers are not used.
SUBWOOFER[2)]	YES: Select this when a sub woofer is used. NONE: Select this when a sub woofer is not used.

[1)] JAX-D55 only

[2)] This setting is effective only when an optional sub woofer is connected.

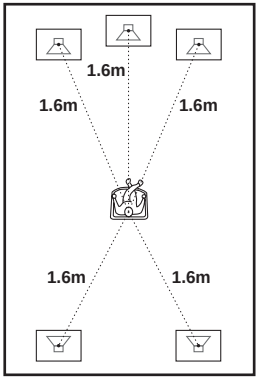
Notes

- When adjusting speakers, the sound may cut off for a moment.
- Depending on the settings of other speakers, the sub woofer may output excessive sound.*
- When connecting a sub woofer, make sure to set the “SUBWOOFER” setting to “YES”. If set to “NONE”, no sound is output from the sub woofer.*
- When you play a DVD that does not have sub woofer output recorded, note that no sound is produced from the sub woofer, even if “SUBWOOFER” is set to “YES”.*

* When you use an optional sub woofer

■ DISTANCE (JAX-D55 only)

The default distance setting for the speakers in relation to the listening position is shown below.



Be sure to change the value in the Setup Display when you move the speakers.
When you set the distance using the “QUICK SETUP” (page 12), the settings are automatically displayed.
Any items that are set to “NONE” in the “SIZE” setting cannot be selected.
The default settings are underlined.

FRONT 1.6m	Front speaker distance from the listening position can be set in 0.2 meter increments from 1.0 to 7.0 meters.
CENTER 1.6m	Center speaker distance can be moved up to 1.6 meters closer to the listening position, from the front speakers in 0.2 meter increments.
SURROUND 1.6m	Surround speaker distance can be moved up to 4.6 meters closer to the listening position, from the front speakers, in 0.2 meter increments.

Notes

- When adjusting speakers, the sound may cut off for a moment.
- If each of the front and surround speakers are not placed at an equal distance from your listening position, set the distance of the closest speaker.
- Do not place the surround speakers farther away from your listening position than the front speakers.

Adjusting the speaker volume and level

For JAX-D55

1 **Press DVD SETUP in stop mode.**
The Setup Display appears.

2 **Press ↑ or ↓ repeatedly to select “SPEAKER SETUP”, then press ENTER.**

3 **Press ↑ or ↓ repeatedly to select “TEST TONE”, then press ENTER.**

4 **Press ↑ or ↓ repeatedly to select “ON”, then press ENTER.**
You will hear the test tone from each speaker in sequence.

5 **Press ↑/↓/←/→ repeatedly to adjust the value of “LEVEL” and “BALANCE” from your listening position.**
The test tone is emitted from the selected speaker.

6 **Press ENTER when you finish adjusting.**

7 **Press ↑ or ↓ repeatedly to select “TEST TONE”, then press ENTER.**

8 **Press ↑ or ↓ repeatedly to select “OFF”, then press ENTER.**

Tip

To adjust the balance or the level without listening to the test tone, select “BALANCE” or “LEVEL” in step 3 and press ENTER, then adjust the balance or level using ↑ or ↓ and press ENTER.

For JAX-D33

1 **Press DVD SETUP in stop mode.**
The Setup Display appears.

2 **Press ↑ or ↓ repeatedly to select “SPEAKER SETUP”, then press ENTER.**

continued

3 Press ↑ or ↓ repeatedly to select "LEVEL", "BALANCE" or "LFE", then press ENTER.

4 Press ↑ or ↓ repeatedly to adjust the level or balance or select a setting, then press ENTER.

To return to the default settings

Select the item to be returned to the default setting and press CLEAR.

To change the volume of all speakers at one time

Adjust using VOL + or – (or VOLUME control on the unit).

■ LEVEL

You can vary the level of each speaker as follows. For JAX-D55, be sure to set "TEST TONE" to "ON" for easy adjustment.
Any items that are set to "NONE" in the "SIZE" setting cannot be selected.
The default settings are underlined.

CENTER* 0 dB	Adjust the level of the center speaker (–6 dB to +6 dB, 1 dB increments).
SURROUND LEFT* 0 dB SURROUND RIGHT* 0 dB	Adjust the level of the surround speaker (–6 dB to +6 dB, 1 dB increments).
SUBWOOFER 0 dB (for JAX-D55) LEVEL 3 (for JAX-D33)	Adjust the level of the sub woofer (–10 dB to +10 dB for JAX-D55, LEVEL 3 – 1 for JAX-D33).

* JAX-D55 only

■ BALANCE

You can vary the balance of the left and right speakers as follows. For JAX-D55, be sure to set "TEST TONE" to "ON" for easy adjustment.
The default setting is underlined.

FRONT – – – (CENTER)	Adjust the balance between the front left and right speakers (6 steps left or right). The center position is shown as "– – –".

■ TEST TONE (JAX-D55 only)

The speakers will emit a test tone to adjust "BALANCE" and "LEVEL".
The default setting is underlined.

OFF	The test tone is not emitted from the speakers.
ON	The test tone is emitted from each speaker in sequence while adjusting balance or level. When you select one of the "SPEAKER SETUP (LEVEL or BALANCE)" items, the test tone is emitted from the selected speaker.

■ LFE (JAX-D33 only)

You can enjoy low frequency effect with LFE channel recorded on discs.
The default setting is underlined.

ON	The LFE channel is output.
OFF	The LFE channel is not output.

Note

If there is excessive wow or flutter when recording audio from a DVD, set "LFE" to "OFF".

Presetting radio stations

You can preset up to 20 FM stations and 10 AM stations. You can then tune in any of those stations simply by selecting the corresponding preset number.

Automatic tuning preset

You can automatically tune in all of the stations that can be received in your area and then store the radio frequency of the desired stations.

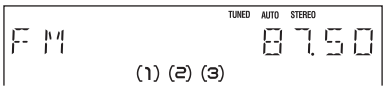
1 Press FUNCTION + or – repeatedly (or TUNER/BAND on the unit) to switch the function to TUNER.

2 Press BAND (or TUNER/BAND on the unit) repeatedly to select "FM" or "AM".

3 Press TUNING MODE repeatedly until "AUTO" appears.

4 Press TUNING + or – (or turn TUNING operation dial on the unit).

The frequency changes as the system scans for a station. Scanning stops automatically when a station is tuned in. At that time, "TUNED" and "STEREO" (for an FM stereo program) appear.

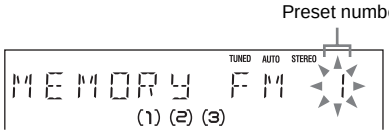


If "TUNED" does not appear and the scanning does not stop

Set the frequency of the desired radio station as described in steps 3 and 4 of "Manual tuning preset".

5 Press TUNER MEMORY.

A preset number flashes. Perform steps 6 and 7 while the preset number flashes.



6 Press TUNING + or – repeatedly (or turn TUNING operation dial on the unit) to select the desired preset number.

7 Press ENTER.

"COMPLETE" appears.

8 Repeat steps 2 through 7 to store other stations.

Manual tuning preset

You can manually tune in and store the radio frequency of the desired stations.

1 Press FUNCTION + or – repeatedly (or TUNER/BAND on the unit) to switch the function to TUNER.

2 Press BAND (or TUNER/BAND on the unit) repeatedly to select "FM" or "AM".

3 Press TUNING MODE repeatedly until "AUTO" and "PRESET" disappear from the display.

4 Press TUNING + or – repeatedly (or turn TUNING operation dial on the unit) to tune in the desired station.

5 Press TUNER MEMORY.

A preset number flashes. Perform steps 6 and 7 while the preset number flashes.

6 Press TUNING + or – repeatedly (or turn TUNING operation dial on the unit) to select the desired preset number.

7 Press ENTER.

"COMPLETE" appears.

8 Repeat steps 2 through 7 to store other stations.

continued

Other operations

To	Do this
Tune in a station with a weak signal	Follow the procedure described in “Manual tuning preset”.
Set another station to the existing preset number	Start over from step 2. After step 5, press TUNING + or – repeatedly (or turn TUNING operation dial on the unit) to select the preset number you want to store the other station.

To improve tuner reception

When tuner reception is poor, set DVD player power off by DVD power manage function. DVD power is factory set to on.
Use buttons on the unit for the operation.

1 Press DVD.

2 Press I/⏻ to turn off the system.

3 Press I/⏻ while holding ■.

“DVD PWR OFF” appears.

To set DVD power on

Repeat the procedure above and “DVD PWR ON” appears.

Notes

- When “DVD PWR OFF” is selected, DVD access time is increased.
- You cannot change the setting in Power Saving Mode (page 49).

To change the AM tuning interval (except for Saudi Arabian model)

The AM tuning interval is factory-preset to 9 kHz (or 10 kHz for some areas). To change the AM tuning interval, tune in any AM station first, then turn off the system. While holding PLAY MODE/TUNING MODE on the unit, press I/⏻ on the unit. When you change the interval, all the AM preset stations are erased. To reset the interval, repeat the same procedure.

Note

You cannot change the AM tuning interval in Power Saving Mode (page 49).

Tips

- The preset stations are retained for about a half day even if you disconnect the power cord or if a power failure occurs.
- To improve broadcast reception, adjust the supplied antennas, or connect a commercially available external antenna.

Listening to the radio

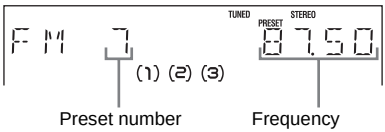
You can listen to a radio station either by selecting a preset station, or by manually tuning in the station.

Listening to a preset station

— *Preset Tuning*

Preset radio stations in the tuner's memory first (see "Presetting radio stations" on page 37).

1. **Press FUNCTION + or – repeatedly (or TUNER/BAND on the unit) to switch the function to TUNER.**
2. **Press BAND (or TUNER/BAND on the unit) repeatedly to select "FM" or "AM".**
3. **Press TUNING MODE repeatedly until "PRESET" appears.**
4. **Press TUNING + or – repeatedly (or turn TUNING operation dial on the unit) to select the desired preset station.**



Listening to non-preset radio station

— *Manual Tuning*

1. **Press FUNCTION + or – repeatedly (or TUNER/BAND on the unit) to switch the function to TUNER.**
2. **Press BAND (or TUNER/BAND on the unit) repeatedly to select "FM" or "AM".**
3. **Press TUNING MODE repeatedly until "AUTO" and "PRESET" disappear from the display.**
4. **Press TUNING + or – repeatedly (or turn TUNING operation dial on the unit) to tune in the desired station.**

Notes

- The OSD does not appear on the TV screen except for DVD function.
- When switching to DVD function from tuner, a longer time may be required to access the disc. In this case, set "DVD PWR ON" by DVD power manage function (page 38).

Tips

- To improve broadcast reception, adjust the supplied antennas, or connect a commercially available external antenna.
- When an FM stereo program has static noise, press FM MODE repeatedly until "MONO" appears. There will be no stereo effect, but the reception will improve.
- Press TUNING MODE repeatedly until "AUTO" appears in step 3 above, then press TUNING + or – (or turn TUNING operation dial on the unit). The frequency indication changes and scanning stops when the system tunes in a station (Automatic Tuning).
- To record the radio programs, use manual recording (pages 42 and 48).

Tape – Play

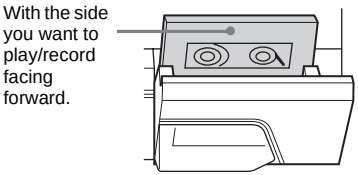
Loading a tape

Use buttons on the unit for the operation.

1 Press TAPE A/B repeatedly to select deck A or B.

2 Press ⏏ PUSH.

3 Load a recorded/recordable tape in deck A or B with the side you want to play/record facing forward.



Playing a tape

You can use TYPE I (normal) tape.

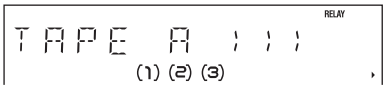
1 Load a tape.

2 When you load a tape in deck B, press PLAY MODE repeatedly to select "⇄" to play one side. Select "⇄" [1] to play both sides.

To play both decks in succession, press PLAY MODE repeatedly until "RELAY" (Relay Play)[2] appears in the display.

3 Press ◄►.

Press the button again to play the reverse side. The tape starts playing.



[1] The tape deck stops automatically after repeating the sequence five times.

[2] Relay Play always follows this cyclic sequence up to five times, then stops:
Deck A (front side) → Deck B (front side) → Deck B (reverse side)

Other operations

To	Do this
Stop play	Press ■.
Pause	Press ❚❚. Press ❚❚ again to resume play.
Fast-forward or rewind	Press ◄◄ or ►►.
Remove a tape	Press ⏏ PUSH on the unit.

Tip

If you select either deck A or B and press ◄►, ❚❚, ◄◄ or ►► when no tape is in that deck, the system automatically switches to the tape in the other deck and starts that operation.

Searching for the beginning of the current or the next track (AMS)*

To go forward

Press ⏭ (or turn AMS operation dial on the unit clockwise) during forward playback.
"TAPE A (or TAPE B) >>> +1" appears.
Press ⏮ (or turn AMS operation dial on the unit counterclockwise) during reverse playback on deck B.
"TAPE B <<< +1" appears.

To go back

Press ⏮ (or turn AMS operation dial on the unit counterclockwise) during forward playback.
"TAPE A (or TAPE B) <<< –1" appears.
Press ⏭ (or turn AMS operation dial on the unit clockwise) during reverse playback on deck B.
"TAPE B >>> –1" appears.

* AMS: Automatic Music Sensor

Note

The AMS function may not operate correctly under the following circumstances:
– When the unrecorded space between songs is less than 4 seconds long.
– When the system is placed near a television.

Tip

When a tape is inserted, corresponding forward (►)/ reverse (◄) indicators light.

Tape – Recording

Recording your favorite CD tracks on a tape

— CD-TAPE Synchro Recording

You can record a whole disc (VIDEO CD, CD, MP3) on a tape.
You can use TYPE I (normal) tape. The recording level is adjusted automatically.
Use buttons on the unit for the operation.

1 Load a recordable tape into deck B, then press TAPE A/B repeatedly to select deck B.

2 Press PLAY MODE repeatedly to select "⇄" to record on one side. Select "↻⇄" (or "RELAY") to record on both sides.

3 Press ◁▷ repeatedly to select recording side, then press ■.

If you select both sides recording or front side recording, press ◁▷ to light up the ► indicator, then press ■. If you record on the reverse side, press ◁▷ again to light up the ◄ indicator, then press ■.

4 Press DVD and load a disc you want to record.

If you have already loaded the disc, press DISC SKIP/EX-CHANGE to select the disc.

When you want to record an album from an MP3 disc, be sure to press PLAY MODE repeatedly to select "ALBM", then press ALBUM + or – to select the desired album before proceeding.

5 Press CD SYNC.

Deck B stands by for recording.
"REC" flashes.

6 Press REC PAUSE/START.

Recording starts.

To stop recording

Press ■.

continued

To record a VIDEO CD/CD/MP3 by specifying track order

You can record only your favorite tracks using Program Play. Between steps 4 and 5, perform steps 2 to 6 of “Creating your own program” (page 20).

Notes

- CD Synchro Recording is not available with DVDs and JPEG files.
- You cannot listen to other sources while recording.
- When you press CD SYNC in step 5, the surround effect may automatically change (see “Selecting the surround effect” on page 44).
- If the play mode is set to Repeat Play or Shuffle Play, it automatically switches to Normal Play in step 5.
- When you record from a VIDEO CD, playback with PBC functions is automatically canceled.

Tip

If you select both sides recording and the tape reaches the end of the front side part-way through a track, the entire track is recorded again from the beginning of the reverse side.

Recording on a tape manually

— Manual Recording

You can record just the portions you like from a disc (DVD, VIDEO CD, CD, MP3), tape or radio program on a tape.
You can also record from connected components (see “Hooking up optional components” on page 53).
Use buttons on the unit for the operation.

1 Load a recordable tape into deck B, then press TAPE A/B repeatedly to select deck B.

2 Press PLAY MODE repeatedly to select “⇄” to record on one side. Select “↻⇄” (or “RELAY”) to record on both sides.

3 Press ◁▷ repeatedly to select recording side, then press ■.

If you select both sides recording or front side recording, press ◁▷ to light up the ► indicator, then press ■. If you record on the reverse side, press ◁▷ again to light up the ◄ indicator, then press ■.

4 Press one of the following buttons to select the desired source to record.

- DVD: To record from this system’s CD/DVD player.
- TAPE A/B: To record from this system’s tape deck A.
- TUNER/BAND: To record from this system’s tuner.
- VIDEO/SAT: To record from the connected optional component to VIDEO/SAT IN L/R jacks.

5 Press REC PAUSE/START.

Deck B stands by for recording.
“REC” flashes.

6 Press REC PAUSE/START, then start playing the desired source to record.

Recording starts.

To stop recording

Press ■.

Notes

- You cannot listen to other sources while recording.
- When you press REC PAUSE/START in step 5, the surround effect may automatically change (see "Selecting the surround effect" on page 44).

Tips

- When you record on both sides, be sure to start from the front side. If you start from the reverse side, recording stops at the end of the reverse side.
- For recording from the tuner:
  If noise is heard while recording from the tuner, move the respective antenna to reduce the noise.

Sound Adjustment

Adjusting the sound

You can reinforce the bass and create a more powerful sound.

Press i-Bass on the unit.

Each time you press the button, the display changes cyclically as follows:
I-BASS HIGH* ⟶ I-BASS OFF ⟶ I-BASS LOW*

* The volume switches to power mode, the equalizer curve changes, and the i-Bass button lights up.

Selecting the sound effect

DVD VIDEO CD CD MP3

Press PRESET EQ on the unit repeatedly to select the preset you desire.

The preset name appears in the display.

To cancel the sound effect

Press PRESET EQ on the unit repeatedly until "FLAT" appears in the display.

Sound effect options

EQ	Effect
HEAVY	Standard music sources
VOCAL	
SALSA	
TECHNO	
HIP HOP	
MP3 EQ	

Selecting the surround effect

DVD VIDEO CD CD MP3

Press SOUND FIELD + or – (or SOUND FIELD on the unit) repeatedly to select the effect you desire.

Each time you press the button, the display changes cyclically as follows:

■ For JAX-D55

When the headphones are not connected

SBS MULTI* ⟷ A.F.D. AUTO* ⟷ PRO LOGIC* ⟷ PLII MOVIE* ⟷ PLII MUSIC* ⟷ LINK ⟷ LINK SURR ⟷ 2CH SURR ⟷ 2CH STEREO

When the headphones are connected

HP 2CH ⟷ HP SURR ⟷ HP VIRTUAL*

■ For JAX-D33

2CH STEREO ⟷ 2CH SURR ⟷ VIRTUAL*

* These sound fields can be selected during DVD function except when
- the system is in stand by for recording or is recording.
- the pitch of the music is adjusted with KEY CONTROL ♯/♭.
- Karaoke mode is selected.
- a microphone is connected.

- A.F.D. AUTO: Auto Format Direct Auto
- PRO LOGIC: Performs Pro Logic decoding. The source recorded in 2 channels is decoded into 4.1 channels.
- PL II MUSIC: Performs the Pro Logic II music mode decoding. This setting is ideal for normal stereo sources such as CDs.
- PL II MOVIE: Performs Pro Logic II movie mode decoding. This setting is ideal for movies encoded in Dolby Surround. In addition, this mode can reproduce sound in 5.1 channels when watching videos of overdubbed or old movies.
- SBS MULTI: Sound Broad System Multi mode. This mode lets you enjoy audio playback of all types of discs from multiple speakers.
- LINK: The front speaker channels are output at both the front and surround speaker.
- VIRTUAL: Creates 5 sets of virtual speakers surrounding the listener from a single pair of actual surround speakers.

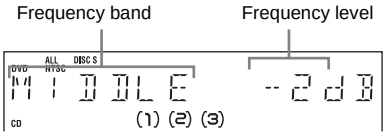
Notes

- For JAX-D55, if “NONE” is selected in surround speaker setup, no sound will be output from the surround speakers even if “LINK” or “LINK SURR” is selected.
- For some discs, the surround effect may not be as much as expected.

Adjusting the graphic equalizer and storing

You can adjust the sound by raising or lowering the levels of specific frequency ranges, then store up to three personal files (P FILE) in the memory.
Before operation, first select the audio emphasis you want for your basic sound.
Use buttons on the unit for the operation.

1 Turn BASS, MIDDLE or TREBLE control to adjust the level.



2 Press and hold P FILE.

A personal file number appears.

3 Press P FILE repeatedly to select P FILE 1 – 3 you want to store the equalizer setting.

4 Press ENTER.

"COMPLETE" appears.
This setting is automatically stored as the personal file you selected in step 3.

To call up a personal file

Press P FILE repeatedly to select the desired personal file number.

Singing along: Karaoke

DVD VIDEO CD CD MP3

You can sing along by turning down the singer's voice. You need to connect an optional microphone.

Enjoying Karaoke

Use buttons on the unit for the operation.

1 Turn MIC LEVEL to MIN to turn down the microphone control level.

2 Connect an optional microphone to MIC jack.

3 Press KARAOKE/MPX repeatedly to obtain the karaoke effect you desire.

Each time you press the button, the display changes cyclically as follows:

KARAOKE PON → MPX L[1] → MPX R[1] → KARAOKE OFF[2]

To sing karaoke of multiplex CD, select "MPX L" or "MPX R".

[1] Except for DVD

[2] Karaoke mode is canceled.

4 Start playing the music.

5 Adjust the microphone volume by turning MIC LEVEL.

continued

Other operations

To	Do this
Use VIDEO CDs or DVDs	Turn on your TV and switch it to the appropriate video input.
Cancel karaoke mode	Turn MIC LEVEL to MIN and disconnect the microphone from MIC jack, then press KARAOKE/MPX repeatedly until "🎤" disappears.
Adjust the microphone echo	Turn ECHO LEVEL to adjust the echo effect. To cancel the echoing, turn ECHO LEVEL to MIN.
Adjust the pitch of music	Press KEY CONTROL ♯ or ♭ on the remote to suit your vocal range. You can adjust the key higher or lower in 13 halftone steps (♭6 – ♯6).

Notes

- Microphone does not function while the tape deck is performing the AMS operation (page 41).
- The instrumental sound may be reduced as well as the singer's voice when the sound is recorded in monaural.
- The singer's voice may not be reduced when:
  - only a few instruments are playing.
  - a duet is being played.
  - the source has strong echoes or chorus.
  - the singer's voice deviates from the center.
  - the voice on the source is singing in high soprano or tenor.
- If you connect the microphone while playing a 5.1 channel, the sound switches to 2 channel.
- If the disc changes, karaoke mode is canceled.
- With some songs, vocals may not be canceled when you select "KARAOKE PON".

Mixing and recording sounds

You can "mix" sounds by playing one of the components and singing or speaking into a microphone (not supplied).
The mixed sound can be recorded on a tape. Use buttons on the unit for the operation.

1 Prepare the source you want to mix.

2 Load a recordable tape in deck B, and press TAPE A/B repeatedly to select deck B.

3 Press PLAY MODE repeatedly to select "⇄" to record on one side. Select "↻" (or "RELAY") to record on both sides.

4 Press ◁▷ repeatedly to select recording side, then press ■.

If you select both sides recording or front side recording, press ◁▷ to light up the ► indicator, then press ■. If you record on the reverse side, press ◁▷ again to light up the ◄ indicator, then press ■.

5 Press the function button of the source you want to record (e.g., DVD).

When you want to record from TAPE A, press TAPE A/B repeatedly until TAPE A is selected.

6 Press REC PAUSE/START.

Deck B stands by for recording.
"REC" flashes.

7 Press REC PAUSE/START, and then start singing, speaking or playing the desired source.

Recording starts.

To stop recording

Press ■.

Notes

- When you select any function other than DVD in step 5, karaoke and key control settings are canceled.
- Microphone does not function while the tape deck is performing the AMS operation (page 41).

Tips

- If acoustic feedback (howling) occurs, move the microphone away from the speakers or change the direction of the microphone.
- If you want to record your voice through the microphone only, you can do so by selecting the DVD function and not playing a disc.
- When high level sound signals are input, the system automatically adjusts the recording level to prevent distortion of the recorded sound signal (Auto Level Control function).

Falling asleep to music

— Sleep Timer

You can set the system to turn off after a certain time, so that you can fall asleep to music.

Press SLEEP.

Each time you press the button, the minute display (the turn-off time) changes cyclically as follows:
AUTO* → 90MIN → 80MIN → 70MIN → … → 10MIN → OFF

* The system automatically turns off in 100 minutes or after the current disc or tape finishes playing.

Other operations

To	Press
Check the remaining time*	SLEEP once.
Change the time to turn off	SLEEP repeatedly to select the time you want.
Cancel the Sleep Timer Function	SLEEP repeatedly until "SLEEP OFF" appears.

* You cannot check the remaining time if you select "AUTO".

Note

Do not set to "AUTO" during Synchro Recording on a tape.

Tip

You can use the Sleep Timer, even if you have not set the clock.

Waking up to music

— Play Timer

You can wake up to music at a preset time. Make sure you have set the clock (see "Setting the clock" on page 12).
Use buttons on the remote for the operation.

1 Prepare the sound source you want to play.

- DVD: Load a disc. To start from a specific track, make a program (see "Creating your own program" on page 20).
- Tape: Load a tape.
- Tuner: Tune in the preset radio station (see "Listening to the radio" on page 39).

2 Press VOL + or – to adjust the volume.

3 Press CLOCK/TIMER SET.

4 Press ↑ or ↓ repeatedly to select "PLAY SET", then press ENTER.

"ON" appears and the hour indication flashes.

5 Set the time to start playing.

Press ↑ or ↓ repeatedly to set the hour, then press →.
The minute indication flashes.
Press ↑ or ↓ repeatedly to set the minute, then press ENTER.

6 Set the time to stop playing following the same procedure as step 5.

7 Press ↑ or ↓ repeatedly until the desired sound source appears.

Each time you press the button, the display changes cyclically as follows:

8 Press ENTER.

The type of timer ("PLAY TIMER"), the start time, the stop time, and the sound source appear in turn, before the original display returns.

9 Press I/⏻ to turn off the system.

continued

Other operations

To	Do this
Check the setting	**1** Press CLOCK/TIMER SELECT. **2** Press ↑ or ↓ repeatedly until "PLAY SELECT" appears, then press ENTER.
Change the setting	Start over from step 1.
Cancel the timer	**1** Press CLOCK/TIMER SELECT. **2** Press ↑ or ↓ repeatedly until "TIMER OFF" appears, then press ENTER.

Notes

- You cannot activate the Play Timer and Rec Timer at the same time.
- If you use the Play Timer and the Sleep Timer at the same time, the Sleep Timer has priority.
- The system turns on 15 seconds before the preset time. Do not operate the system from the time the system turns on until the play starts.
- If the system is on 15 seconds before the preset time, the Play Timer will not be activated.
- You cannot use the optional component connected to VIDEO/SAT IN L/R jacks as the sound source for Play Timer.

Timer recording radio programs

— Rec Timer

You can record a preset radio station from a specified time.
To timer record, you must first preset the radio station (see "Presetting radio stations" on page 37) and set the clock (see "Setting the clock" on page 12).
Use buttons on the remote for the operation.

1 **Tune in the preset radio station (see "Listening to a preset station" on page 39).**

2 **Press CLOCK/TIMER SET.**

3 **Press ↑ or ↓ repeatedly to select "REC SET", then press ENTER.**

"ON" appears and the hour indication flashes.

4 **Set the time to start recording.**

Press ↑ or ↓ repeatedly to set the hour, then press →.

The minute indication flashes.

Press ↑ or ↓ repeatedly to set the minute, then press ENTER.

5 **Set the time to stop recording following the same procedure as step 4.**

The type of timer ("REC TIMER"), the start time, the stop time, and the preset radio station to be recorded (e.g., "TUNER FM 5") appear in turn, before the original display returns.

6 **Load a recordable tape into deck B.**

7 **Press I/⏻ to turn off the system.**

Other operations

To	Do this
Check the setting	**1** Press CLOCK/TIMER SELECT. **2** Press ↑ or ↓ repeatedly until "REC SELECT" appears, then press ENTER.
Change the setting	Start over from step 1.
Cancel the timer	**1** Press CLOCK/TIMER SELECT. **2** Press ↑ or ↓ repeatedly until "TIMER OFF" appears, then press ENTER.

Notes

- You cannot activate the Play Timer and Rec Timer at the same time.
- If you use the Rec Timer and the Sleep Timer at the same time, the Sleep Timer has priority.
- The system turns on 15 seconds before the preset time. Do not operate the system from the time the system turns on until the play starts.
- If the system is on 15 seconds before the preset time, the Rec Timer will not be activated.
- The volume is reduced to minimum during recording.
- Note that if the Rec Timer is set at the same time as the Play Timer sound source is set to tape, the Rec Timer sound may be recorded onto the tape.

Display

Turning off the display

— Power Saving Mode

The demonstration display (display window and buttons lighting and flashing even when the system power is off) and the clock display can be turned off to minimize the amount of power consumed during standby (Power Saving Mode).

Press DISPLAY repeatedly while the system is off until the demonstration display or the clock display disappears.

To cancel Power Saving Mode

Press DISPLAY while the system is off. Each time you press the button, the display switches cyclically as follows:
Demonstration display → Clock display* → No display (Power Saving Mode)

* The clock is displayed only if you set the clock.

Tips

- The timer continues to operate in Power Saving Mode.
- I/⏻ indicator lights up even in Power Saving Mode.

Viewing information about the disc in the display

You can check the playing time and remaining time of the current track or that of the disc. When a DVD/CD-TEXT disc or a disc with MP3 audio tracks or JPEG image file is loaded, you can also check the information recorded on disc, such as the titles.

Checking the remaining time and titles (DVD/VIDEO CD/CD/MP3/JPEG)

Press DISPLAY during Normal Play.

Each time you press the button, the display changes cyclically as follows:

■ When playing a DVD

Elapsed playing time of the current title → Remaining time of the current title → Elapsed playing time of the current chapter → Remaining time of the current chapter → Title[1] → Clock display (for eight seconds) → Effect status → Sound field status → Karaoke effect status[2]

■ When playing a CD/VIDEO CD without PBC function

Elapsed playing time of the current track → Remaining time of the current track → Elapsed playing time of the disc[3] → Remaining time of the disc[3] → Track title[1] → Clock display (for eight seconds) → Effect status → Sound field status → Karaoke effect status[2]

■ When playing a VIDEO CD with PBC functions (Ver. 2.0)

Elapsed playing time on the current scene[4] → Clock display (for eight seconds) → Effect status → Sound field status → Karaoke effect status[2]

■ When playing an MP3

Elapsed playing time of the current track → Remaining time of the current track → Track title[1][5] → Album name[1] → Clock display (for eight seconds) → Effect status → Sound field status → Karaoke effect status[2]

■ When playing a JPEG

Current file number → File name[1] → Album name[1] → Clock display (for eight seconds) → Effect status → Sound field status

[1] Only alphabet letters and numbers can be displayed. In addition, nothing is displayed for discs without DVD/CD text and file/album name.

[2] When Karaoke effect is activated.

[3] These are not displayed during Shuffle Play or Program Play.

[4] May not appear with still images.

[5] When you play back a track with an ID3 tag ver. 1.0 or ver. 1.1, the ID3 tag appears. The ID3 tag displays only the track title information.

Checking the total playing time and titles (DVD/VIDEO CD/CD/MP3/JPEG)

Press DISPLAY in stop mode.

Each time you press the button, the display changes cyclically as follows:

■ When a DVD/VIDEO CD/CD/MP3/JPEG is in Normal Play mode

Total playing time of the current disc or total album number of the disc[1] or total track number of the current album[2] → Disc title[3] or volume label[4] or album name[4] → Clock display (for eight seconds) → Effect status (for eight seconds) → Sound Field status → Karaoke effect status[5]

[1] For discs with MP3 audio tracks in Normal Play or Shuffle Play mode or JPEG image files in Normal Play mode

[2] For discs with MP3 audio tracks in Album Play or Album Shuffle Play mode or JPEG image files in Album Play mode

[3] For discs with DVD/CD text

[4] For discs with MP3 audio tracks or JPEG image files, album titles or volume label may not be displayed depending on the play mode.

[5] When Karaoke effect is activated.

■ When a VIDEO CD/CD/MP3 is in Program Play mode

The last track number of the program → The program step number → Track title[1] → Clock display (for eight seconds) → Effect status → Sound Field status → Karaoke effect status[2]

[1] Nothing is displayed for discs without CD text and album name.
When you play back an MP3 audio track with an ID3 tag ver. 1.0 or ver. 1.1, the ID3 tag appears. The ID3 tag displays only the track title information.

[2] When Karaoke effect is activated.

Notes

- Depending on the DVD, the disc information may not be displayed.
- Depending on the disc, some DVD/CD-TEXT information may not appear.
- With formats other than ISO9660 level 1 and 2, folder names or file names may not be displayed correctly.

Tips

- You can check the playing time of the disc using the Control Menu (see "Viewing information about the disc in the on-screen display" on page 51).
- When playing VIDEO CDs with PBC functions, only the playing time of the scene is displayed.

Checking the tuner information (TUNER)

Press DISPLAY while listening to the radio.

Each time you press the button, the display changes cyclically as follows:
Preset number* and frequency → Clock display (for eight seconds) → Effect status → Sound Field status

* Preset number is displayed only if you preset radio stations (page 37).

Viewing information about the disc in the on-screen display

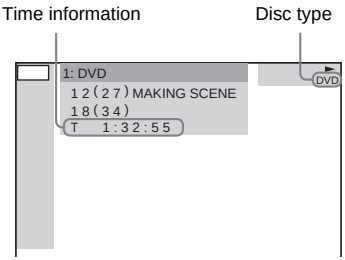
You can check the playing time and remaining time of the current title, chapter or track.
You can also check the DVD/CD text and file/album name recorded on the disc.

1 Press DVD DISPLAY during play.

The Control Menu appears.

2 Press DISPLAY to change the time information.

The display and the kinds of time that you can change depend on the disc you are playing.



■ When playing a DVD

- T **:**:**
  Elapsed playing time of the current title
- T–**:**:**
  Remaining time of the current title
- C **:**:**
  Elapsed playing time of the current chapter
- C–**:**:**
  Remaining time of the current chapter
- **:**:**
  Elapsed playing time of the menu or current title without chapter

■ When playing a VIDEO CD with PBC functions (Ver. 2.0)

- **:**
  Elapsed playing time of the current scene

continued

■ When playing a CD/VIDEO CD without PBC function

- T **:**
  Elapsed playing time of the current track
- T–**:**
  Remaining time of the current track
- D **:**
  Elapsed playing time of the current disc
- D–**:**
  Remaining time of the current disc

■ When playing an MP3

- T **:**
  Elapsed playing time of the current track
- T–**:**
  Remaining time of the current track

To turn off the Control Menu

Press DVD DISPLAY repeatedly until the Control Menu disappears.

Notes

- Only alphabet letters and numbers can be displayed.
- Depending on the disc being played, the system can only display a limited number of characters. Also, depending on the disc, all text characters are not displayed.
- With formats other than ISO9660 level 1 and 2, folder names or file names may not be displayed correctly.

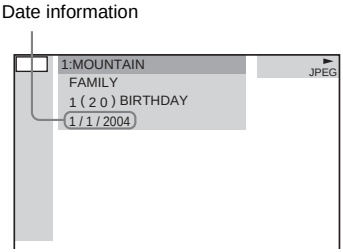
Checking the date information

JPEG

You can check the date information during play when the Exif* tag is recorded in the JPEG image data.

Press DVD DISPLAY during play.

The Control Menu appears.



* “Exchangeable Image File Format” is a digital camera image format defined by the Japan Electronics and Information Technology Industries Association (JEITA).

Note

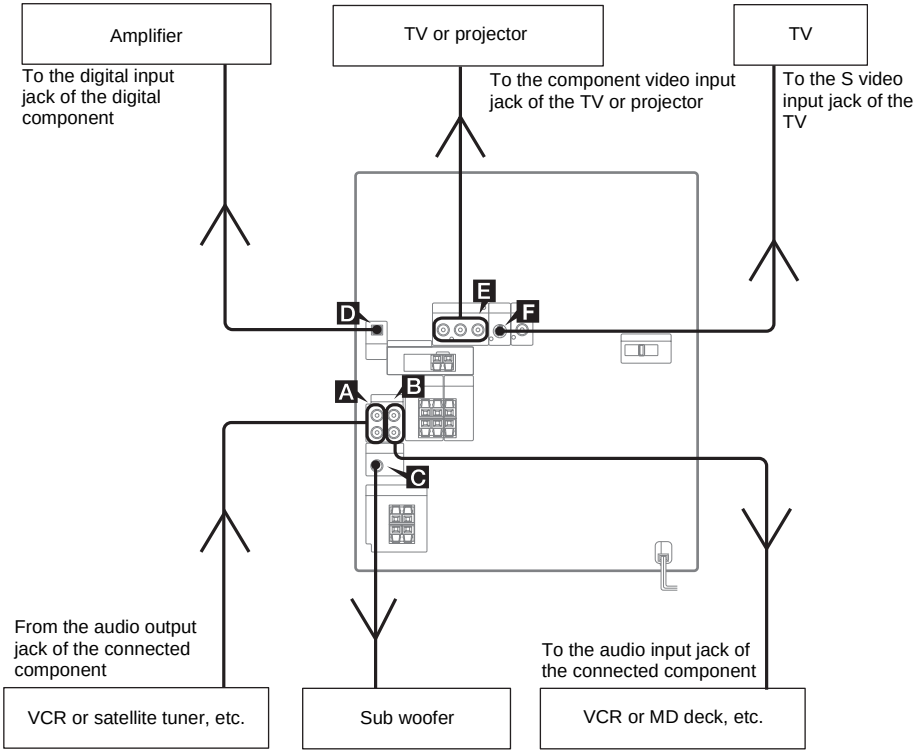
If there is no date information or data is damaged on the disc, the system cannot display the date information.

Tip

You can change the date information order by selecting “JPEG DATE” setting in “CUSTOM SETUP” (page 27).

Hooking up optional components

To enhance your system, you can connect optional components. Refer to the operating instructions provided with each component.


Amplifier
TV or projector
TV
To the digital input jack of the digital component
To the component video input jack of the TV or projector
To the S video input jack of the TV
D
E
F
A
B
C
From the audio output jack of the connected component
To the audio input jack of the connected component
VCR or satellite tuner, etc.
Sub woofer
VCR or MD deck, etc.

continued

A VIDEO/SAT IN L/R jacks

Use audio cords (not supplied) to connect an optional analog component (VCR or satellite tuner, etc.) to these jacks. You can then record or listen to from the component through this system.

B VIDEO/SAT OUT L/R jacks

Use audio cords (not supplied) to connect an optional analog component (VCR or MD deck, etc.) to these jacks. You can then output audio to the component from this system.

C SUB WOOFER OUT jack

Use an audio cord (not supplied) to connect an optional sub woofer to this jack. You can then output audio to the component from this system. Refer to the operating instructions supplied with the connected sub woofer.

Note

The effects may be limited or noise may occur depending on the connected sub woofer or the type of music being played. For details, consult your nearest Aiwa dealer.

D DIGITAL OUT jack (JAX-D33 only)

Use a digital optical cord (square, not supplied) to connect an amplifier with a digital optical input jack. Sound is then output when the system function is set to DVD. By connecting this system to the optical input jack of the optional amplifier equipped with Dolby Digital or DTS decoder, you can enjoy the 5.1 channel sound. If the jack is covered with a cap, remove it before use.

Note

When playing a CD-DA, VIDEO CD or MP3 audio tracks, you cannot output digital audio.

E COMPONENT VIDEO OUT jacks

Use an optional video cord to connect a TV. If your TV accept progressive format file signals, you must use this connection and set "COMPONENT OUT" to "PROGRESSIVE" in "Adjusting the TV screen" (page 28).

F S VIDEO OUT jack

Use an S video cord (not supplied) to connect an optional TV to this jack. You can enjoy higher quality video images.

Listening to audio from a connected component

Use buttons on the unit for the operation.

1 **Connect audio cords.**

See “Hooking up optional components” on page 53.

2 **Press VIDEO/SAT to switch the function to VIDEO or SAT.**

Start playing the connected component.

Notes

- If you cannot select “SAT” by pressing VIDEO/SAT repeatedly, hold down VIDEO/SAT and then press I/⏻ while the power is on. The function will change from “VIDEO” to “SAT”, and “SAT” will appear in the display. To change back to “VIDEO”, repeat the same procedure.
- If the sound is distorted or too loud when “VIDEO” is selected or you want to switch back to “SAT”, repeat the operation described above to switch to “SAT”.
- You cannot switch the VIDEO/SAT function in Power Saving Mode (page 49).

Enjoying the 5.1 channel sound with the optional amplifier

(JAX-D33 only)

1 **Connect a digital optical cord.**

See “Hooking up optional components” on page 53.

2 **Connect 6 speakers to an AV amplifier equipped with a decoder.**

For the speaker placement, refer to the operating instructions supplied with the connected amplifier.

3 **Switch the output to 5.1 channel Dolby Digital sound or 5.1 channel DTS sound.**

See “Changing the sound/subtitle/language” on page 25.

Tip

You cannot use the surround effect of this system.

Recording audio from a connected component

1 **Connect audio cords.**

See “Hooking up optional components” on page 53.

2 **Start recording manually.**

See “Recording on a tape manually” on page 42.

Recording on a connected component

Making an analog recording

1 **Connect audio cords.**

See “Hooking up optional components” on page 53.

2 **Start recording.**

Refer to the operating instructions provided with the connected component.

Making an analog recording from a VIDEO CD to a video tape

1 **Connect optional audio cords from the VIDEO/SAT OUT L/R (audio) jacks and the supplied video cable from the VIDEO OUT jack to your VCR.**

2 **Start recording.**

Refer to the operating instructions provided with the connected component.

Note

If you connect a video deck between this system and the TV, you may experience video leakage when watching the video signal from this system. Do not connect a video deck between this system and the TV.

Problems and remedies

Should you encounter a problem with your system, do the following:

1 Make sure the power cord and speaker cords are correctly and firmly connected.

2 Find your problem in the troubleshooting checklist below and take the indicated corrective action.

If the problem persists after doing all of the above, consult your nearest Aiwa dealer.

When the I/⏻ indicator flashes

Immediately unplug the power cord and check the following items.

- If your system has a voltage selector, is the voltage selector set to the correct voltage? Check the voltage for your region, then make sure the voltage selector is set correctly.
- Are the + and – speaker cords short-circuited?
- Are you using the supplied speakers?
- Is anything blocking the ventilation holes on the rear of the system?

Check all the above items and fix any problems found. After I/⏻ indicator stops flashing, reconnect the power cord and turn on the system. If the indicator still flashes, or if the cause of the problem cannot be found even after checking all the above items, consult your nearest Aiwa dealer.

General

The display starts flashing as soon as you plug in the power cord even though you have not turned on the system (see step 7 of "Hooking up the system" (page 7)).

- Press DISPLAY twice while the system is off. The demonstration disappears.

"– –:– –" appears in the display.

- A power interruption has occurred. Set the clock (page 12) and timer settings (pages 47 and 48) again.

The clock setting/radio presetting/timer is canceled.

- Redo the following:
  – "Setting the clock" (page 12)
  – "Presetting radio stations" (page 37)
  – "Falling asleep to music" and "Waking up to music" (page 47)
  – "Timer recording radio programs" (page 48)

There is no sound.

- Press VOL + or turn VOLUME control on the unit clockwise.
- Make sure the headphones are not connected.
- Check the speaker connections (page 8).
- There is no audio output during Rec Timer.
- The system is in pause mode or in slow-motion play mode. Press ◄► to return to normal play mode.

There is severe hum or noise.

- Move the system away from the source of noise.
- Connect the system to a different wall outlet.
- Install a noise filter (commercially available) to the power cord.

The timer cannot be set.

- Set the clock again (page 12).

The timer does not function.

- Check the timer setting and set the correct time (pages 47 and 48).
- Cancel the Sleep Timer Function (page 47).

The remote does not function.

- Remove the obstacle.
- Move the remote closer to the system.
- Point the remote at the system's sensor.
- Replace the batteries (R6/size AA).
- Locate the system away from the fluorescent light.

continued

There is acoustic feedback.

- Reduce the volume.
- Move the microphone away from the speakers or change the direction of the microphone.

The color irregularity on a TV screen persists.

- Turn off the TV set once, then turn it on after 15 to 30 minutes. If the color irregularity still persists, place the speakers farther away from the TV set.

The sound from the connected source is distorted.

- If "VIDEO" appears in the display when you press VIDEO/SAT on the unit, switch the display to "SAT" (see "Listening to audio from a connected component" on page 55).

Speakers

Sound comes from one channel or unbalanced left and right volume.

- Check the speaker connection and speaker placement.
- The source being played back is monaural.
- Adjust the balance parameters (page 35).

The sound comes from the center speaker only. (JAX-D55 only)

- Depending on the disc, the sound may come from the center speaker only.

There is no sound from the sub woofer (not supplied).

- Make sure that the SUBWOOFER setting is set to "YES" (page 34).
- No sound is produced from the sub woofer when you play a DVD that does not have sub woofer output recorded.

There is no sound from the center speaker. (JAX-D55 only)

- Set the center speaker level to the appropriate level.

There is no sound from the surround speakers. (JAX-D55 only)

- Set the surround speakers level to the appropriate level.
- The software being played back has limited sound effects. Check the volume with the test tone.

Sound lacks bass.

- Check that the speaker's + and – jacks are connected correctly.

DVD/VIDEO CD/CD/MP3/JPEG player

The disc tray does not open and "LOCKED" appears.

- Contact your Aiwa dealer or local authorized Aiwa service facility.

The disc tray does not close.

- Place the disc correctly.
- Always close the tray by pressing ⏏ on the unit. Trying to press the tray closed with your fingers may cause problems with the player.

The disc does not eject.

- You cannot eject the disc during CD Synchro Recording. Press ■ to cancel the CD Synchro Recording, then press ⏏ on the unit to eject the disc.
- Consult your nearest Aiwa dealer.

Play does not start.

- Open the disc tray and check whether a disc is loaded.
- Wipe the disc clean (page 64).
- Replace the disc.
- Place the disc that this system can play (page 5).
- Place the disc correctly.
- Place the disc in the tray with the label side up.
- Remove the disc and wipe away the moisture on the disc, then leave the system turned on for a few hours until the moisture evaporates.
- Press ◄► to start play.
- The region code on the DVD does not match the system.
- Cancel the Custom Parental Control function (page 30).

Disc access takes a long time.

- Set "DVD PWR ON" by DVD power manage function (page 38).

The sound skips.

- Wipe the disc clean (page 64).
- Replace the disc.
- Try moving the system to a place without vibration (e.g., on top of a stable stand).
- Try moving the speakers away from the system, or placing them on separate stands. When you listen to a track with bass sounds at high volume, the speaker vibration may cause the sound to skip.

Play does not start from the first track.

- Press PLAY MODE repeatedly until both “PGM” and “SHUF” disappear to return to Normal Play.
- Resume Play has been selected. Press ■ in stop mode, then start playback (page 18).
- The title, DVD or PBC menu automatically appears on the TV screen.

Playback starts automatically.

- The DVD features an auto playback function.

Playback stops automatically.

- Some discs may contain an auto pause signal. While playing such a disc, the playback stops at the auto pause signal.

The system turned off during DVD playback.

- If approximately one hour passes with DVD playback paused or with the DVD top menu or a DVD menu displayed during DVD playback, the system automatically turns off.

You cannot perform some functions such as Stop, Search, Slow-motion Play, Repeat Play, Shuffle Play or Program Play.

- Depending on the disc, you may not be able to do some of the operations above. Refer to the operating instructions supplied with the disc.

MP3 audio track cannot be played back.

- Recording was not performed according to the ISO9660 level 1 or level 2 format, or Joliet in the expansion format.
- The MP3 audio track does not have the extension “.MP3”.
- The data is not stored in MP3 format.
- Discs containing files other than MPEG1 Audio Layer-3 files cannot be played.
- Set “DATA CD PRIORITY” to “MP3” in the “CUSTOM SETUP” setting (page 26).
- Playback is possible up to 8 levels.
- The disc contains more than 99 albums (the maximum number of MP3 audio tracks that can be contained on an album is 250).

MP3 audio tracks take longer to play back than others.

- After the system reads all tracks on the discs, playback may take more time than usual if:
  - – the number of albums or tracks on the disc is very large.
  - – the album and track organization structure is very complex.

The JPEG image file cannot be played.

- The DATA CD is not recorded in JPEG format that conforms to ISO9660 Level 1/Level 2 or Joliet.
- The JPEG image file does not have the extension “.JPG” or “.JPEG”.
- The data is not formatted in JPEG even though it has the extension “.JPG” or “.JPEG”.
- Length or width of image is more than 4720 dots.
- Set “DATA CD PRIORITY” to “JPEG” in the “CUSTOM SETUP” setting (page 26).
- Playback is possible up to 8 levels.
- Progressive JPEG format files cannot be played on this system.
- JPEG image files with a high width to length ratio cannot be played.
- The disc contains more than 99 albums (the maximum number of JPEG image files that can be contained on an album is 250).

The album title, track title and ID3 tag do not appear correctly.

- Use a disc that conforms with ISO9660 level 1, level 2, or Joliet in the expansion format.
- The ID3 tag displays only the track title information and applies only to version 1.0 or version 1.1.

The disc title, album title, track title and ID3 tag appear as spaces. The CD characters appear as spaces.

- The character codes that can be displayed by this system are numbers and alphabet only. Other characters appear as spaces.

The sound loses stereo effect when you play a DVD, VIDEO CD, CD or MP3.

- Select “KARAOKE OFF” in step 3 of “Singing along: Karaoke” (page 45).
- Make sure the system is connected appropriately.

The surround effect is difficult to hear when you are playing a Dolby Digital or MPEG audio sound track.

- Make sure the sound field function is on (page 44).
- Check the speaker connections and setting (pages 7 and 34).
- Depending on the DVD, the output signal may not be the entire 5.1 channel. It may be monaural or stereo even if the sound track is recorded in Dolby Digital or MPEG audio format.

continued

The recording was not done properly when making a digital recording from the CD/DVD player of this system to an optional component connected to the DIGITAL OUT jack. (JAX-D33 only)

- The DIGITAL OUT jack of this system is not to be used for recording. Make an analog recording on an optional component connected to the VIDEO/SAT OUT L/R jacks.

There is excessive wow or flutter when recording audio from a DVD. (JAX-D33 only)

- Set “LFE” under “SPEAKER SETUP” to “OFF” (page 36).

Picture

There is no picture.

- Press DVD.
- Check that the system is connected securely.
- The video cable is damaged. Replace it with a new one.
- Make sure you connect the system to the video input jack of your TV (page 8).
- Make sure you turn on the TV and operate the TV correctly.
- Make sure you select the video input on the TV so that you can view the pictures from the system.
- When you play a VIDEO CD, make sure you set the color system correctly, according to your TV (color) system.
- To force the system to switch to interlace when PROGRESSIVE is selected, make sure the function is set to DVD, then hold down ■ on the unit and press SOUND FIELD.

Picture noise appears.

- Clean the disc.
- If video from this system has to go through your VCR to get to your TV, the copy-protection applied to some DVD programs could affect picture quality. If you still experience problems after checking your connections, please try connecting this system directly to your TV’s S video-input, if your TV is equipped with this input (page 8).
- When you play a VIDEO CD, the color system is different. Set the color system to match your TV (page 30).

The aspect ratio of the screen cannot be changed even though you set “TV TYPE” in “SCREEN SETUP” in the Setup Display when you play a wide picture.

- The aspect ratio is fixed on your DVD.
- If you connect the system with the S video cable, connect directly to the TV. Otherwise, you may not change the aspect ratio.
- Depending on the TV, you may not change the aspect ratio.

Messages do not appear on the screen in the language you want.

- Select the language you want for the on-screen display in “OSD” under “LANGUAGE SETUP” in the Setup Display (page 26).

The language for the sound track cannot be changed.

- Multilingual tracks are not recorded on the DVD being played.
- The DVD prohibits changing the language for the sound track.

The subtitle language cannot be changed.

- Multilingual subtitles are not recorded on the DVD being played.
- The DVD prohibits changing the subtitles.

The subtitle cannot be turned off.

- The DVD prohibits turning off subtitles.

The angles cannot be changed.

- Multi-angles are not recorded on the DVD being played.
- The DVD prohibits changing the angles.

Tuner

Severe hum or noise/stations cannot be received. (“TUNED” or “STEREO” flashes in the display)

- Set the proper band and frequency (page 37).
- Connect the antenna properly (page 8).
- Find a place and an orientation that provide good reception, then set up the antenna again. If you cannot obtain good reception, we recommend you connect a commercially available external antenna.
- The supplied FM lead antenna receives signals along its entire length, so make sure you extend it fully.
- Locate the antennas as far away from the speaker cords as possible.
- Consult your nearest Aiwa dealer if the supplied AM antenna has come off the plastic stand.
- Try turning off surrounding electrical equipment.
- Set “DVD PWR OFF” by DVD power manage function (page 38).

A stereo FM program cannot be received in stereo.

- Press FM MODE until “MONO” disappears.

Tape deck

The tape does not record or play, or there is a decrease in sound level.

- The heads are dirty. Clean them (page 64).
- The record/playback heads are magnetized. Demagnetize them (page 64).

The tape does not erase completely.

- The record/playback heads are magnetized. Demagnetize them (page 64).

There is excessive wow or flutter, or the sound drops out.

- The capstans or pinch rollers are dirty. Clean them (page 64).

Noise increases or the high frequencies are erased.

- The record/playback heads are magnetized. Demagnetize them (page 64).

The tape does not record.

- No cassette is loaded. Load a cassette.
- The tab has been removed from the cassette. Cover the broken tab with adhesive tape (page 64).
- The tape has wound to the end.

Optional components

There is no sound.

- Refer to General item “There is no sound.” (page 57) and check the condition of the system.
- Connect the component properly (page 53) while checking:
  – if the cords are connected properly.
  – if the cord plugs are firmly inserted all the way.
- Turn on the connected component.
- Refer to the operating instructions supplied with the connected component and start playing.

If the system still does not operate properly after performing the above measures, reset the system as follows:

Use buttons on the unit for the operation.

1 Disconnect the power cord.

2 Reconnect the power cord.

3 Press ■, P FILE and DISC 1 at the same time.

4 Press I/⏻ to turn on the system.

The system is reset to the factory settings except for DVD settings. You should set the settings you made, such as the preset stations, clock, and timer.

To return the DVD setup to the default settings*, perform reset as follows:

1 Press DVD SETUP in stop mode.

2 Press ↑ or ↓ repeatedly to select “SET UP”, then press ENTER.

3 Press ↑ or ↓ repeatedly to select “RESET”, then press ENTER.

4 Press ↑ or ↓ repeatedly to select “YES”, then press ENTER.
It takes a few seconds to complete. Do not press I/⏻ when resetting the system.

Note

Turn off the sub woofer before you reset the system when you connect the sub woofer.

* Except for Parental Control settings

Messages

One of the following messages may appear or flash in the display during operation.

DVD/VIDEO CD/CD/MP3/JPEG

CANNOT PLAY

- A disc that cannot be played was inserted.
- A disc with an unsupported Region code was inserted.

DATA ERROR

The JPEG file is an unsupported format.

NO DISC

There is no disc in the unit.

NO STEP

CLEAR was pressed when no track (step) is programmed.

NOT IN USE

You pressed an invalid button.

PLAY LIMIT

The MP3 file cannot be played.

PUSH STOP

You pressed PLAY MODE or CD SYNC on the unit during play.

STEP FULL

You tried to program 26 or more tracks (steps).

READING

The system is reading TOC information of the disc. Some buttons are not available.

Tape

NO TAB

You cannot record the tape because the tab has been removed from the cassette.

NO TAPE

There is no tape in the tape deck.

Precautions

On operating voltage

Before operating the system, check that the operating voltage of your system is identical with the voltage of your local power supply.

On safety

- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Unplug the system from the wall outlet (mains) if it is not to be used for an extended period of time. To disconnect the power cord (mains lead), pull it out by the plug. Never pull the cord itself.
- Should any solid object or liquid fall into the system, unplug the system and have it checked by qualified personnel before operating it any further.
- AC power cord must be changed only at the qualified service shop.

On placement

- Do not place the system in an inclined position.
- Do not place the system in locations where it is;
  - Extremely hot or cold
  - Dusty or dirty
  - Very humid
  - Subject to vibrations
  - Subject to direct sunlight.
- Use caution when placing the unit or speakers on surfaces that have been specially treated (with wax, oil, polish, etc.) as staining or discoloration of the surface may result.
- For JAX-D55, do not mount the surround speakers on thin walls. If the wall is not thick or strong enough, the speakers may fall and result in injury or other damage.

On heat buildup

- Although the system heats up during operation, this is not a malfunction.
- Place the system in a location with adequate ventilation to prevent heat buildup in the system.
- If you continuously use this system at a high volume, the cabinet temperature of the top, side and bottom rises considerably. To avoid burning yourself, do not touch the cabinet.
- To prevent a malfunction, do not cover the ventilation hole for the cooling fan.

In case color irregularity is observed on nearby a TV screen

With the magnetically shielded type of speaker system, the speakers can be installed near a TV set. However, color irregularity may still be observed on the TV screen depending on the type of your TV set.

If color irregularity is observed...

Turn off the TV set once, then turn it on after 15 to 30 minutes.

If color irregularity is observed again...

Place the speakers farther away from the TV set.

IMPORTANT NOTICE

Caution: This system is capable of holding a still video image or on-screen display image on your television screen indefinitely. If you leave the still video image or on-screen display image displayed on your TV for an extended period of time you risk permanent damage to your television screen. Projection televisions are especially susceptible to this.

On operation

- If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the CD/DVD player. Should this occur, the system will not operate properly. Remove the disc and leave the system turned on for about an hour until the moisture evaporates.
- When you move the system, take out any disc.

If you have any questions or problems concerning your system, please consult your nearest Aiwa dealer.

continued

Notes on discs

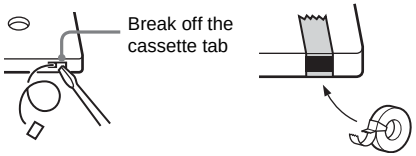
- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.
- Do not use discs encircled with a protection ring. This may cause a malfunction to the system.
- When using discs that have glue or similar tacky substance on the label side of the disc or that used a special ink when the label was printed, there is a chance that the disc or label may become attached to parts inside this unit. When this occurs, it may not be possible to remove the disc, and may also cause this unit to malfunction. Be sure to check that the label side of the disc is not sticky before using.
  The following types of disc should not be used:
  – Rental or used discs with attached seals where the glue extends beyond the seal. The perimeter of the seal on the disc is tacky.
  – Discs that have labels printed using a special ink that feels tacky when touched.

Cleaning the cabinet

Clean the cabinet, panel and controls with a soft cloth slightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as thinner, benzine or alcohol.

To save a tape permanently

To prevent a tape from being accidentally recorded over, break off the cassette tab from side A or B as illustrated.



If you later want to reuse the tape for recording, cover the broken tab with adhesive tape.

Before placing a cassette in the tape deck

Take up any slack in the tape. Otherwise, the tape may get entangled in the parts of the tape deck and become damaged.

When using a tape longer than 90 minutes

The tape is very elastic. Do not change the tape operations such as play, stop, and fast-winding frequently. The tape may get entangled in the tape deck.

Cleaning the tape heads

Clean the tape heads after every 10 hours of use. Be sure to clean the tape heads before you start an important recording or after playing an old tape. Use a separately sold dry-type or wet-type cleaning cassette. For details, refer to the instructions of the cleaning cassette.

Demagnetizing the tape heads

Demagnetize the tape heads and the metal parts that have contact with the tape after every 20 to 30 hours of use with a separately sold demagnetizing cassette. For details, refer to the instructions of the demagnetizing cassette.

Specifications

Main unit

Amplifier section

JAX-D55

The following measured at AC 120, 127, 220, 230 – 240 V, 50/60 Hz

Continuous RMS power output (reference)

Front speaker: 100 + 100 watts (6 ohms at 1 kHz, 10% THD)

Center speaker: 40 watts (6 ohms at 1 kHz, 10% THD)

Surround speaker: 40 + 40 watts (6 ohms at 1 kHz, 10% THD)

JAX-D33

The following measured at AC 120, 127, 220, 230 – 240 V, 50/60 Hz

Continuous RMS power output (reference)

60 + 60 watts (6 ohms at 1 kHz, 10% THD)

Inputs

VIDEO/SAT IN (audio) (phono jacks): voltage 450/250 mV, impedance 47 kilohms

MIC (phone jack): sensitivity 1 mV, impedance 10 kilohms

Outputs

VIDEO/SAT OUT (audio) (phono jacks): voltage 250 mV, impedance 1 kilohm

VIDEO OUT (phono jack): max. output level 1 Vp-p, unbalanced, Sync negative, load impedance 75 ohms

S VIDEO OUT (4-pin/mini-DIN jack): Y: 1 Vp-p, unbalanced, Sync negative, C: 0.286 Vp-p, load impedance 75 ohms

COMPONENT VIDEO OUT: Y: 1 Vp-p, 75 ohms P_B, P_R: 0.7 Vp-p, 75 ohms

DIGITAL OUT (Square optical connector jack, rear panel) (JAX-D33 only)

Wavelength 660 nm

PHONES (stereo mini jack): accepts headphones of 8 ohms or more

FRONT SPEAKER: Use only the supplied speaker SSX-JV55 for JAX-D55, SSX-JV33 for JAX-D33.

SURROUND SPEAKER (JAX-D55 only): Use only the supplied speaker SSX-JD55R.

CENTER SPEAKER (JAX-D55 only): Use only the supplied speaker SSX-JD55C.

SUB WOOFER OUT: voltage 1 V, impedance 1 kilohm

continued

Disc player section

System	Compact disc and digital audio and video system
Laser	Semiconductor laser (DVD: λ=650 nm, CD: λ=780 nm) Emission duration: continuous
Frequency response	DVD (PCM 48 kHz): 2 Hz – 22 kHz (±1 dB) CD: 2 Hz – 20 kHz (±1 dB)
Video color system format	NTSC, PAL

Tape deck section

Recording system	4-track 2-channel stereo
Frequency response	40 – 13,000 Hz (±3 dB), using Sony TYPE I cassette
Wow and flutter	±0.15% W.Peak (IEC) 0.1% W.RMS (NAB) ±0.2% W.Peak (DIN)

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz (50-kHz step)
Antenna	FM lead antenna
Antenna terminals	75 ohms unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
Saudi Arabian models:	531– 1,602 kHz (with the interval set at 9 kHz)
Other models:	530 – 1,710 kHz (with the interval set at 10 kHz) 531 – 1,602 kHz (with the interval set at 9 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

Speaker

Front speaker SSX-JV55 for JAX-D55

Speaker system	3-way, 3-unit, bass-reflex type, magnetically shielded type
Speaker units	
Super Tweeter:	2 cm, ceramic type
Woofer:	16 cm, cone type
Tweeter:	5 cm, cone type
Nominal impedance	6 ohms
Dimensions (w/h/d)	Approx. 240 × 331 × 242 mm
Mass	Approx. 4.0 kg net per speaker

Front speaker SSX-JV33 for JAX-D33

Speaker system	3-way, 3-unit, bass-reflex type, magnetically shielded type
Speaker units	
Super Tweeter:	2 cm, ceramic type
Woofer:	15 cm, cone type
Tweeter:	5 cm, cone type
Nominal impedance	6 ohms
Dimensions (w/h/d)	Approx. 220 × 324 × 239 mm
Mass	Approx. 3.5 kg net per speaker

Surround speaker SSX-JD55R (JAX-D55 only)

Speaker system	1-way, 1-unit, closed type
Speaker units	
Full-range:	8 cm, cone type
Nominal impedance	6 ohms
Dimensions (w/h/d)	Approx. 171 × 98 × 111 mm
Mass	Approx. 0.6 kg net per speaker

Center speaker SSX-JD55C (JAX-D55 only)

Speaker system	1-way, 1-unit, closed type, magnetically shielded type
Speaker units	
Full-range:	8 cm, cone type
Nominal impedance	6 ohms
Dimensions (w/h/d)	Approx. 171 × 98 × 111 mm
Mass	Approx. 0.6 kg

General

Power requirements	
Australian model:	230 – 240 V AC, 50/60 Hz
Saudi Arabian model:	120 – 127 V, 220 V or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Thai model:	220 V AC, 50/60 Hz
Other models:	120 V, 220 V or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Power consumption	
JAX-D55	300 watts
JAX-D33	150 watts
Dimensions (w/h/d)	Approx. 280 × 325 × 385 mm
Mass	
CX-JD55	Approx. 12.5 kg
CX-JD33	Approx. 11.0 kg
Supplied accessories:	Remote Commander (1) R6 (size AA) batteries (2) AM loop antenna (1) FM lead antenna (1) Video cable (1) Speaker pads JAX-D55 (12) JAX-D33 (8)

Design and specifications are subject to change without notice.

Language code list

For details, see pages 12, 13, 25, 26 and 27.
The language spellings conform to the ISO639: 1988 (E/F) standard.

Code	Language	Code	Language	Code	Language
1027	Afar	1245	Inupiak	1489	Russian
1028	Abkhazian	1248	Indonesian	1491	Kinyarwanda
1032	Afrikaans	1253	Icelandic	1495	Sanskrit
1039	Amharic	1254	Italian	1498	Sindhi
1044	Arabic	1257	Hebrew	1501	Sangho
1045	Assamese	1261	Japanese	1502	Serbo-Croatian
1051	Aymara	1269	Yiddish	1503	Singhalese
1052	Azerbaijani	1283	Javanese	1505	Slovak
1053	Bashkir	1287	Georgian	1506	Slovenian
1057	Byelorussian	1297	Kazakh	1507	Samoan
1059	Bulgarian	1298	Greenlandic	1508	Shona
1060	Bihari	1299	Cambodian	1509	Somali
1061	Bislama	1300	Kannada	1511	Albanian
1066	Bengali; Bangla	1301	Korean	1512	Serbian
1067	Tibetan	1305	Kashmiri	1513	Siswati
1070	Breton	1307	Kurdish	1514	Sesotho
1079	Catalan	1311	Kirghiz	1515	Sundanese
1093	Corsican	1313	Latin	1516	Swedish
1097	Czech	1326	Lingala	1517	Swahili
1103	Welsh	1327	Laothian	1521	Tamil
1105	Danish	1332	Lithuanian	1525	Telugu
1109	German	1334	Latvian; Lettish	1527	Tajik
1130	Bhutani	1345	Malagasy	1528	Thai
1142	Greek	1347	Maori	1529	Tigrinya
1144	English	1349	Macedonian	1531	Turkmen
1145	Esperanto	1350	Malayalam	1532	Tagalog
1149	Spanish	1352	Mongolian	1534	Setswana
1150	Estonian	1353	Moldavian	1535	Tonga
1151	Basque	1356	Marathi	1538	Turkish
1157	Persian	1357	Malay	1539	Tsonga
1165	Finnish	1358	Maltese	1540	Tatar
1166	Fiji	1363	Burmese	1543	Twi
1171	Faroese	1365	Nauru	1557	Ukrainian
1174	French	1369	Nepali	1564	Urdu
1181	Frisian	1376	Dutch	1572	Uzbek
1183	Irish	1379	Norwegian	1581	Vietnamese
1186	Scots Gaelic	1393	Occitan	1587	Volapük
1194	Galician	1403	(Afan) Oromo	1613	Wolof
1196	Guarani	1408	Oriya	1632	Xhosa
1203	Gujarati	1417	Punjabi	1665	Yoruba
1209	Hausa	1428	Polish	1684	Chinese
1217	Hindi	1435	Pashto; Pushto	1697	Zulu
1226	Croatian	1436	Portuguese	1703	Not specified
1229	Hungarian	1463	Quechua		
1233	Armenian	1481	Rhaeto-Romance		
1235	Interlingua	1482	Kirundi		
1239	Interlingue	1483	Romanian		

List of items that can be displayed and selected by disc type

When you press DVD DISPLAY, the following control menu items are displayed.

	Control Menu items	Function
	DISC	Displays the disc name or disc type inserted into the system. Selects the disc to be played.
	TITLE (DVD only) **SCENE** (VIDEO CD in PBC playback only) **TRACK** (VIDEO CD only)	Selects the title (DVD), or the track (VIDEO CD) to be played. Displays the scene (VIDEO CD in PBC playback).
	CHAPTER (DVD only) **INDEX** (VIDEO CD only)	Selects the chapter (DVD) or the index (VIDEO CD) to be played.
	ALBUM (MP3 only)	Selects the album (MP3) to be played.
	TRACK (CD or MP3 only)	Selects the track (CD or MP3) to be played.
	INDEX (CD only)	Displays the index (CD).
	TIME	Checks the elapsed time and the remaining playback time. Inputs the time code for picture and music searching.
	AUDIO (DVD only)	Changes the audio setting.
	SUBTITLE (DVD only)	Displays the subtitles. Changes the subtitle language.
	ALBUM (JPEG only)	Selects the album (JPEG) to be played.
	FILE (JPEG only)	Selects the file (JPEG) to be played.
	DATE (JPEG only)	Displays the date information.
	ANGLE (DVD only)	Changes the angle.
	PLAY MODE	Selects the play mode (Normal Play/Shuffle Play/Program Play) for the disc.
	REPEAT	Plays the entire disc (all titles/all tracks/all files), one title/chapter/album/track or contents of program repeatedly.
	CUSTOM PARENTAL CONTROL	Sets the disc to prohibit playback.

Tips

- Each time you press DVD DISPLAY, the Control Menu display changes cyclically as follows:
  Control Menu display → Control Menu display off
- The Control Menu items differ depending on the disc.
- The “REPEAT” indicator lights up in green when you select any item except “OFF”.
- The “ANGLE” indicator lights up in green only when multiple angles are recorded on the disc.

System setup item list

When you press DVD SETUP, the following settings are displayed.
The default settings are underlined.

LANGUAGE SETUP (page 26)

OSD	Select the language you want to use from the displayed language list.
DVD MENU	Select the language you want to use from the displayed language list.
AUDIO	Select the language you want to use from the displayed language list.
SUBTITLE	Select the language you want to use from the displayed language list.

SCREEN SETUP (page 28)

TV TYPE	16:9
	4:3 LETTER BOX
	4:3 PAN SCAN
SCREEN SAVER	ON
	OFF
BACKGROUND	JACKET PICTURE
	GRAPHICS 1 – 5
	BLUE
	BLACK
COMPONENT OUT	INTERLACE
	PROGRESSIVE

CUSTOM SETUP (pages 26, 28, 31)

VCD COLOR SYSTEM	AUTO
	PAL
	NTSC
PARENTAL CONTROL→	
TRACK SELECTION	OFF
	AUTO
AUDIO DRC	OFF
	STANDARD
	MAX
DATA CD PRIORITY	MP3
	JPEG
JPEG DATE	MM/DD/YYYY
	YYYY/MM/DD
	DD/MM/YYYY
	YYYY/DD/MM

SPEAKER SETUP (page 34)

SIZE	FRONT	YES
	CENTER[1)]	YES
		NONE
	SURROUND[1)]	YES
		NONE
	SUBWOOFER	YES
		NONE
DISTANCE[1)]	FRONT	1.6m (1.0 m – 7.0 m)
	CENTER	1.6m (1.0 m – 7.0 m)
	SURROUND	1.6m (1.0 m – 7.0 m)
LEVEL	CENTER[1)]	0 dB (–6 dB – +6 dB)
	SURROUND LEFT[1)]	0 dB (–6 dB – +6 dB)
	SURROUND RIGHT[1)]	0 dB (–6 dB – +6 dB)
	SUBWOOFER	0 dB (JAX-D55: –10 dB – +10 dB)
		LEVEL 3 (JAX-D33: LEVEL 3 – 1)
BALANCE	FRONT	– – – (CENTER) (6 steps left or right)
TEST TONE[1)]	OFF	
	ON	
LFE[2)]	ON	
	OFF	

SET UP (pages 12, 61)

QUICK	
RESET	YES
	NO

[1] JAX-D55 only
[2] JAX-D33 only

Glossary

Album

Section of a music piece on a data CD containing MP3 audio tracks or JPEG image files.

Auto Pause

An automatical pauses according to the signal encoded on the disc while playing a VIDEO CD. If the CD/DVD player does not resume play for a long time, press ◄►► to resume play manually.

Chapter

Sections of a picture or a music piece on a DVD that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want.

Dolby Digital

This sound format for movie theaters is more advanced than Dolby Surround Pro Logic. In this format, the surround speakers output stereo sound with an expanded frequency range and a sub woofer channel for deep bass is independently provided. This format is also called “5.1” because the sub woofer channel is counted as 0.1 channel (since it functions only when a deep bass effect is needed). All six channels in this format are recorded separately to realize superior channel separation. Furthermore, since all the signals are processed digitally, less signal degradation occurs.

Dolby Pro Logic II

Dolby Pro Logic II creates five full-bandwidth output channels from two-channel sources. This is done using an advanced, high-purity matrix surround decoder that extracts the spatial properties of the original recording without adding any new sounds or tonal colorations.

Movie mode

The Movie mode is for use with stereo television shows and all programs encoded in Dolby Surround. The result is enhanced soundfield directionality that approaches the quality of discrete 5.1-channel sound.

continued

Music mode

The Music mode is for use with any stereo music recordings, and provides a wide and deep sound space.

Dolby Surround Pro Logic

As one method of decoding Dolby Surround, Dolby Surround Pro Logic produces four channels from two-channel sound. Compared with the former Dolby Surround system, Dolby Surround Pro Logic reproduces left-to-right panning more naturally and localizes sounds more precisely. To take full advantage of Dolby Surround Pro Logic, you should have one pair of surround speakers and a center speaker. The surround speakers output monaural sound.

DTS

Digital audio compression technology that the Digital Theater Systems, Inc. developed. This technology conforms to 5.1-channel surround. The surround channel is stereo and there is discrete sub woofer channel in this format. DTS provides the same 5.1 discrete channels of high quality digital audio. The good channel separation is realized because the all channel data is recorded discrete and processed in digital.

DVD

A disc that contains up to 8 hours of moving pictures even though its diameter is the same as a CD.

The data capacity of a single-layer and single-sided DVD, at 4.7 GB (Giga Byte), is 7 times that of a CD. Furthermore, the data capacity of a dual-layer and single-sided DVD is 8.5 GB, a single-layer and double-sided DVD 9.4 GB, and a dual-layer and double-sided DVD 17 GB.

The picture data uses the MPEG 2 format, one of the worldwide standards of digital compression technology. The picture data is compressed to about 1/40 of its original size. The DVD also uses the variable rate coding technology that changes the data to be allocated according to the status of the picture.

The audio data is recorded in Dolby Digital as well as in PCM, allowing you to enjoy more realistic audio presence.

Furthermore, various advanced functions such as the multi-angle, multilingual, and Parental Control functions are provided with the DVD.

File

Section of a picture on a data CD containing JPEG image files.

Film based software, Video based software

DVDs can be classified as Film based or Video based software. Film based DVDs contain the same images (24 frames per second) that are shown at movie theaters. Video based DVDs, such as television dramas or sit-coms, displays images at 30 frames (or 60 fields) per second.

Index (CD) / Video Index (VIDEO CD)

A number that divides a track into sections to easily locate the point you want on a VIDEO CD or a CD. Depending on the disc, no indexes may be recorded.

Interlace format (Interlaced scanning)

The Interlace format is the NTSC standard method for displaying TV images at 30 frames per second. Each frame is scanned twice - alternately between the even numbered scanning lines and then odd numbered scanning lines, at 60 times per second.

Menu Playback

Playback using the menu screens recorded on VIDEO CDs with PBC functions. You can enjoy simple interactive software using the menu playback function.

Multi-angle function

Various angles, or viewpoints of the video camera, for a scene are recorded on some DVDs.

Multilingual function

Several languages for the sound or subtitles in a picture are recorded on some DVDs.

Multi Session

This is a recording method that enables adding of data using the Track-At-Once method. Conventional CDs begin at a CD control area called the Lead-in and end at an area called Lead-out. A Multi Session CD is a CD having multiple sessions, with each segment from Lead-in to Lead-out regarded as a single session.

CD-Extra: This format records audio (audio CD data) on the tracks in session 1 and data on the tracks in session 2.

Parental Control

A function of the DVD to limit playback of the disc by the age of the users according to the limitation level in each country/region. The limitation varies from disc to disc; when it is activated, playback is completely prohibited, violent scenes are skipped or replaced with other scenes and so on.

Playback Control (PBC)

Signals encoded on VIDEO CDs (Version 2.0) to control playback. By using menu screens recorded on VIDEO CDs with PBC functions, you can enjoy playing simple interactive programs, programs with search functions, and so on.

This system conforms to Ver. 1.1 and Ver. 2.0 of VIDEO CD standards. You can enjoy two kinds of playback depending on the disc type.

VIDEO CDs without PBC functions (Ver. 1.1 discs)

Enjoy video playback (moving pictures) as well as music.

VIDEO CDs with PBC functions (Ver. 2.0 discs)

Play interactive software using menu screens displayed on the TV screen (PBC Playback), in addition to the video playback functions of Ver. 1.1 discs. Moreover, you can play high-resolution still pictures, if they are included on the disc.

Progressive format (sequential scanning)

In contrast to the Interlace format, the progressive format can reproduce 60 frames per second by reproducing all scanning lines (525 lines for the NTSC system). The overall picture quality increases and still images, text, and horizontal lines appear sharper. This format is compatible with the 525 progressive format.

Region Code

This system is used to protect copyrights. A region number is allocated on each DVD system or DVD disc according to the sales region. Each region code is shown on the system as well as on the disc packaging. The system can play the discs that match its region code. The system can also play discs with the " " mark. Even when the region code is not shown on the DVD, the region limit may still be activated.

Scene

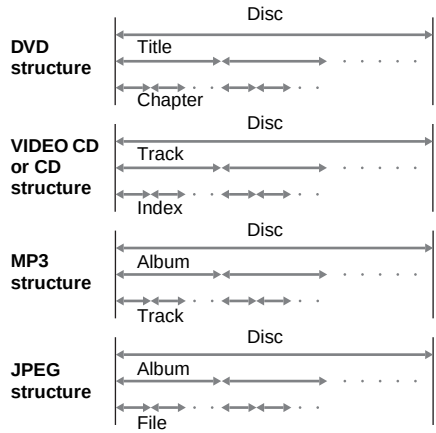
On a VIDEO CD with PBC functions (page 19), the menu screens, moving pictures, and still pictures are divided into sections called "scenes". Each scene is assigned a scene number enabling you to locate the scene you want.

Title

The longest sections of a picture or a music piece on a DVD; a movie, etc., for a picture piece on video software; or an album, etc., for a music piece on audio software. Each title is assigned a title number enabling you to locate the title you want.

Track

Sections of a picture or a music piece on a CD, VIDEO CD, MP3 or JPEG. Each track is assigned a track number enabling you to locate the track you want.



continued

VIDEO CD

A compact disc that contains moving pictures. The picture data uses the MPEG 1 format, one of the worldwide standards for digital compression technology. The picture data is compressed to about 1/140 of its original size. Consequently, a 12 cm VIDEO CD can contain up to 74 minutes of moving pictures.

VIDEO CDs also contain compact audio data. Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed. VIDEO CDs can hold 6 times the audio information of conventional audio CDs.

There are 2 versions of VIDEO CDs.

- Version 1.1: You can play only moving pictures and sounds.
- Version 2.0: You can play high-resolution still pictures and enjoy PBC functions.

This system conforms to both versions.

List of button locations and reference pages

How to use this page

Use this page to find the location of buttons and other parts of the system that are mentioned in the text.

Illustration number

TAPE A/B 20 (40, 41, 42, 46)

Name of button/part — Reference page

Main unit

ALPHABETICAL ORDER

A – L

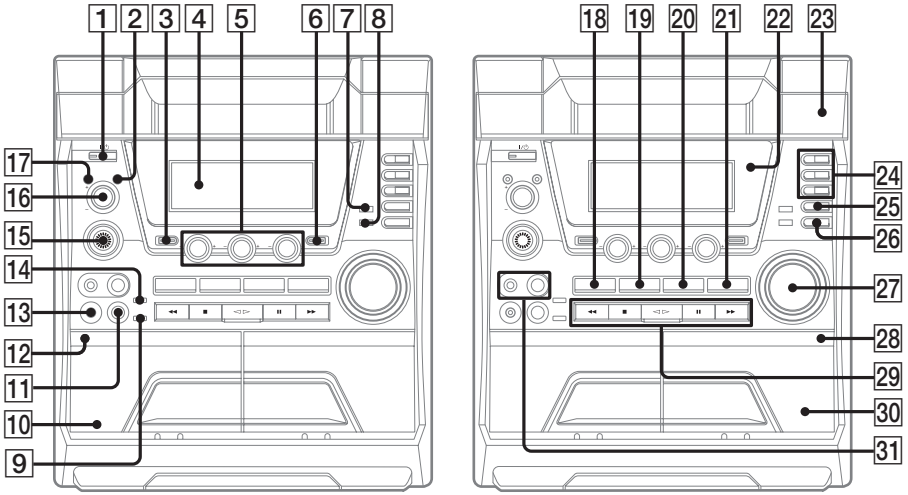
ALBUM + 29 (16, 20, 41)
ALBUM – 29 (16, 20, 41)
BASS control 5 (45)
CD SYNC 14 (41)
Deck A 10 (40, 42)
Deck B 30 (40, 41, 42, 46, 48)
DISC 1 – 3 24 (17, 20, 61)
DISC SKIP/EX-CHANGE 25 (15, 17, 20, 41)
Disc tray 23 (15)
DISPLAY 17 (49, 50, 51)
Display window 4
DVD 18 (10, 12, 16, 20, 38, 41, 42)
ECHO LEVEL 11 (46)
ENTER 2 (12, 16, 18, 19, 21, 23, 25, 28, 30, 34, 37, 45, 61)
i-Bass 15 (43)

M – Z

MIC jack 31 (45)
MIC LEVEL 31 (45)
MIDDLE control 5 (45)
Operation Dial (AMS/TUNING) 16 (16, 37, 39, 41)
P FILE 6 (45, 61)
PHONES jack 13
PLAY MODE 7 (16, 20, 38, 40, 41, 42, 46)
PRESET EQ 3 (43)
REC PAUSE/START 9 (41, 42, 46)
Remote sensor 22
SOUND FIELD 8 (44)
TAPE A/B 20 (40, 41, 42, 46)
TREBLE control 5 (45)
TUNER/BAND 19 (37, 39, 42)
TUNING MODE 7 (37, 39)
VIDEO/SAT 21 (42, 55)
VOLUME control 27 (36)

BUTTON DESCRIPTIONS

I/⏻ (power) 1 (9, 38, 55, 61)
⏏ PUSH (deck A) (eject) 12 (40)
⏏ (open/close) 26 (14, 15)
⏏ PUSH (deck B) (eject) 28 (40)
▶▶ (fast forward) 29 (16, 40)
◁▷ (play) 29 (16, 33, 40, 42)
◀◀ (rewind) 29 (16, 40)
II (pause) 29 (9, 16, 40)
■ (stop) 29 (16, 29, 38, 40, 41, 46, 61)



continued

ALPHABETICAL ORDER

A – D

ALBUM +/– 22 (16, 20)
ANGLE 5 (28)
AUDIO 4 (25)
BAND 17 (37, 39)
CLEAR 7 (21, 24, 34)
CLOCK/TIMER SELECT 29 (48, 49)
CLOCK/TIMER SET 29 (12, 47, 48)
DISC SKIP 2 (17, 20)
DISPLAY 28 (49, 50, 51)
DVD DISPLAY 24 (16, 19, 23, 25, 28, 30, 51, 52)
DVD MENU 8 (18)
DVD SETUP 11 (14, 18, 26, 28, 31, 34, 61)
DVD TOP MENU 25 (18)

E – Z

ENTER 10 (12, 16, 18, 19, 21, 23, 25, 28, 30, 34, 37, 47, 48, 61)
FM MODE 13 (39)
FUNCTION +/– 19 (12, 16, 20, 37, 39)
i-Bass 18 (43)
KARAOKE/MPX 14 (45)
Number buttons 27 (18, 19, 22, 24, 27, 28, 31)
PLAY MODE 20 (16, 20, 40)
REPEAT 13 (19)
SLEEP 30 (47)
SOUND FIELD +/– 16 (44)
SUBTITLE 3 (26)
TUNER MEMORY 21 (37)
TUNING MODE 20 (37, 39)
TUNING +/– 23 (37, 39)
VOL +/– 12 (36, 47)

BUTTON DESCRIPTIONS

I/⏻ (power) 1 (9, 47)
↩ RETURN 6 (14, 19, 31)
↑/↓/←/→ 9 (12, 16, 25, 47, 61)
KEY CONTROL ♯/♭ 15 (46)
◄► (play) 23 (16, 33, 40)
II (pause) 23 (16, 40)
■ (stop) 23 (16, 40)
◄◄ (rewind) 23 (16, 40)
►► (fast forward) 23 (16, 40)
SLOW ◄I/I► 23 (16)
I◄◄ (go back) 23 (16, 41)
►►I (go forward) 23 (16, 41)
>10* 26

* This button does not function.